

FIG. 1

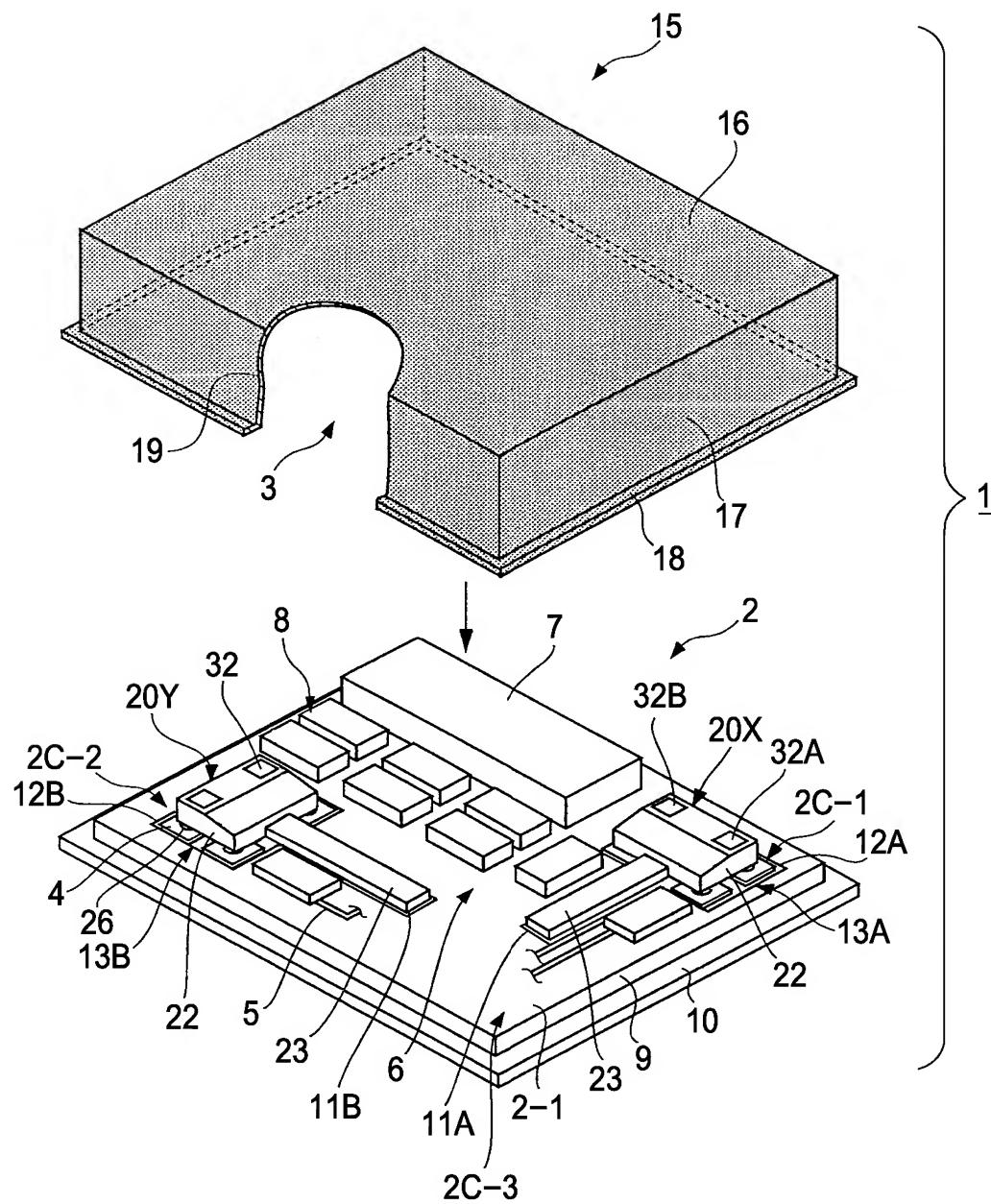


FIG. 2

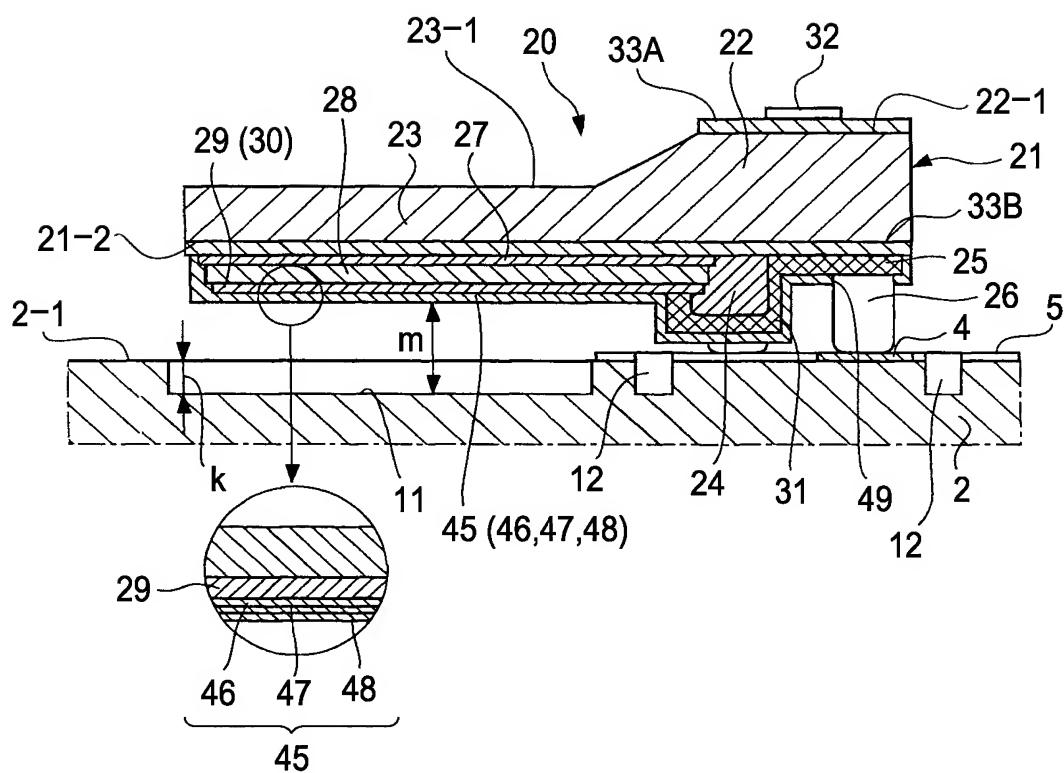


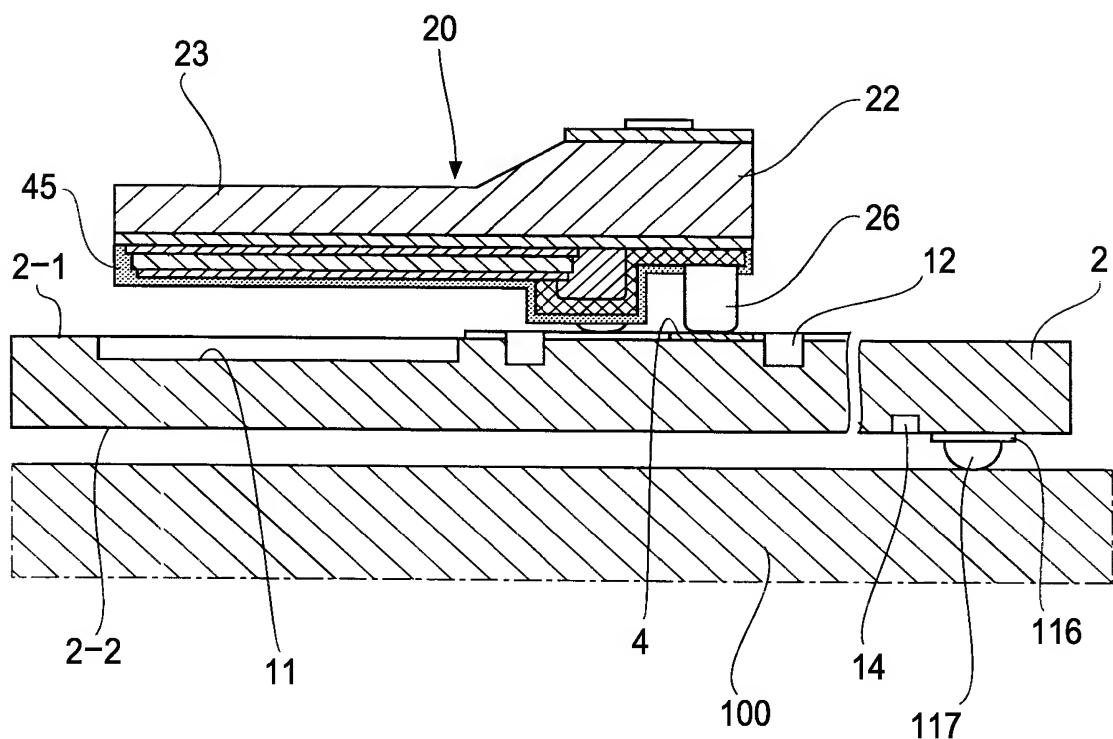
FIG. 3

FIG. 4

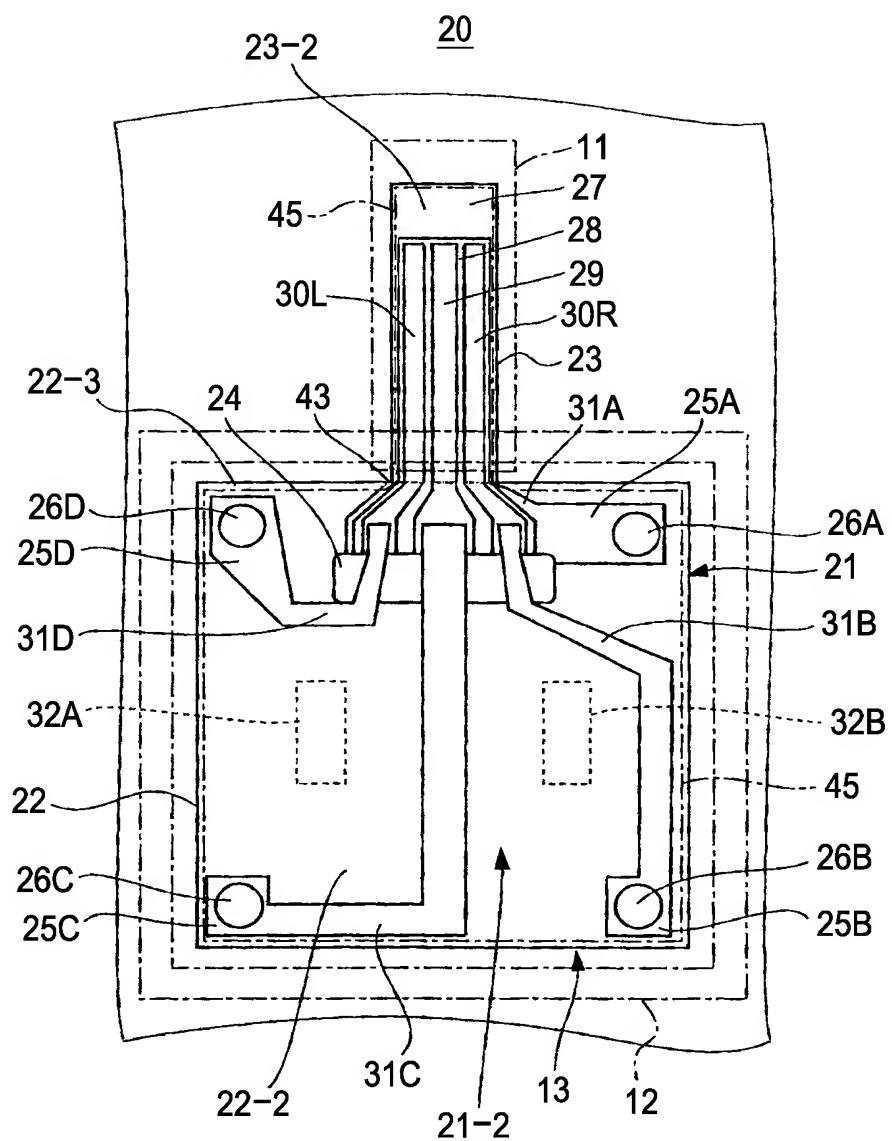


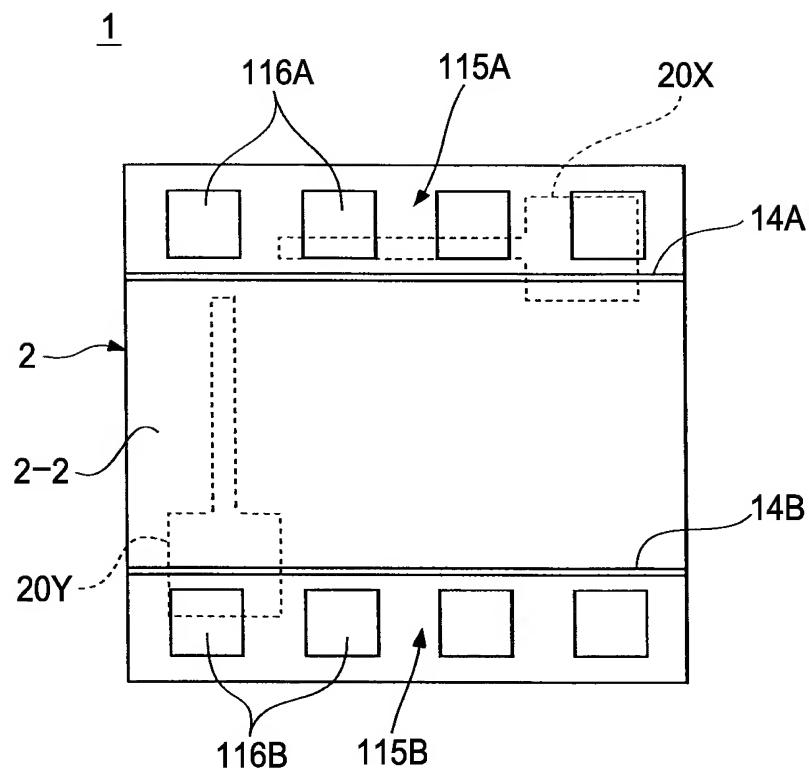
FIG. 5

FIG. 6

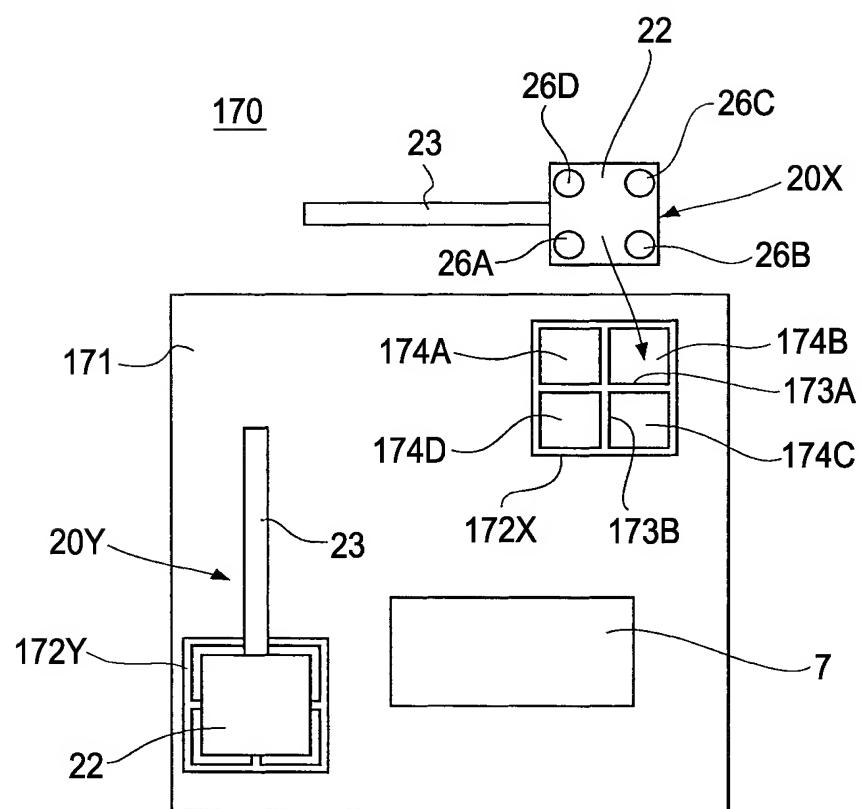


FIG. 7

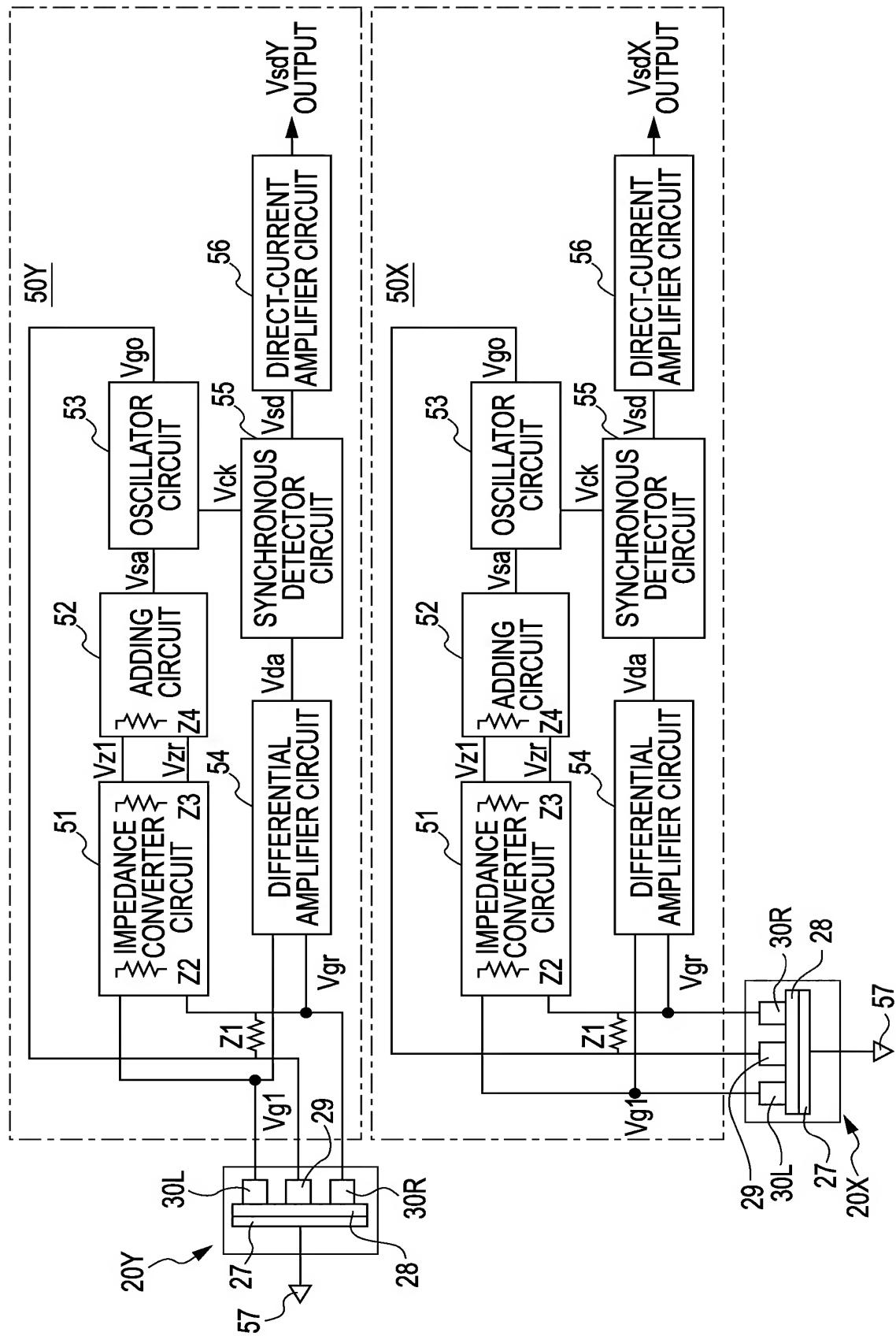


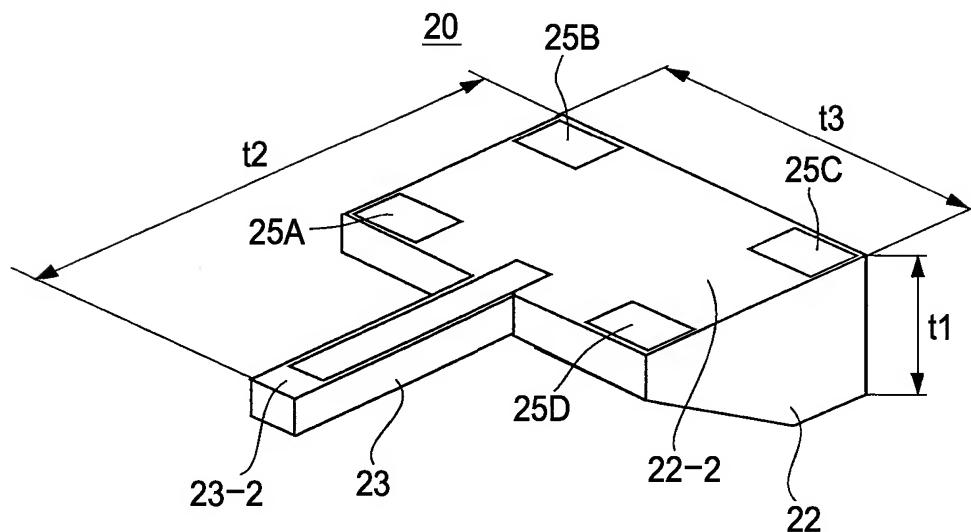
FIG. 8

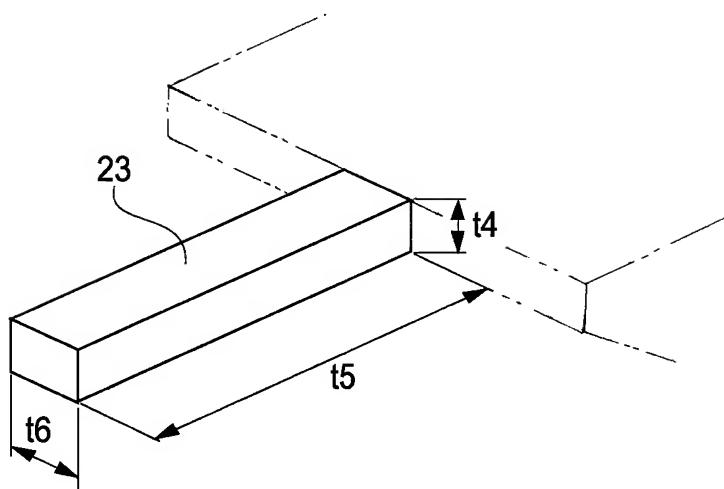
FIG. 9

FIG. 10

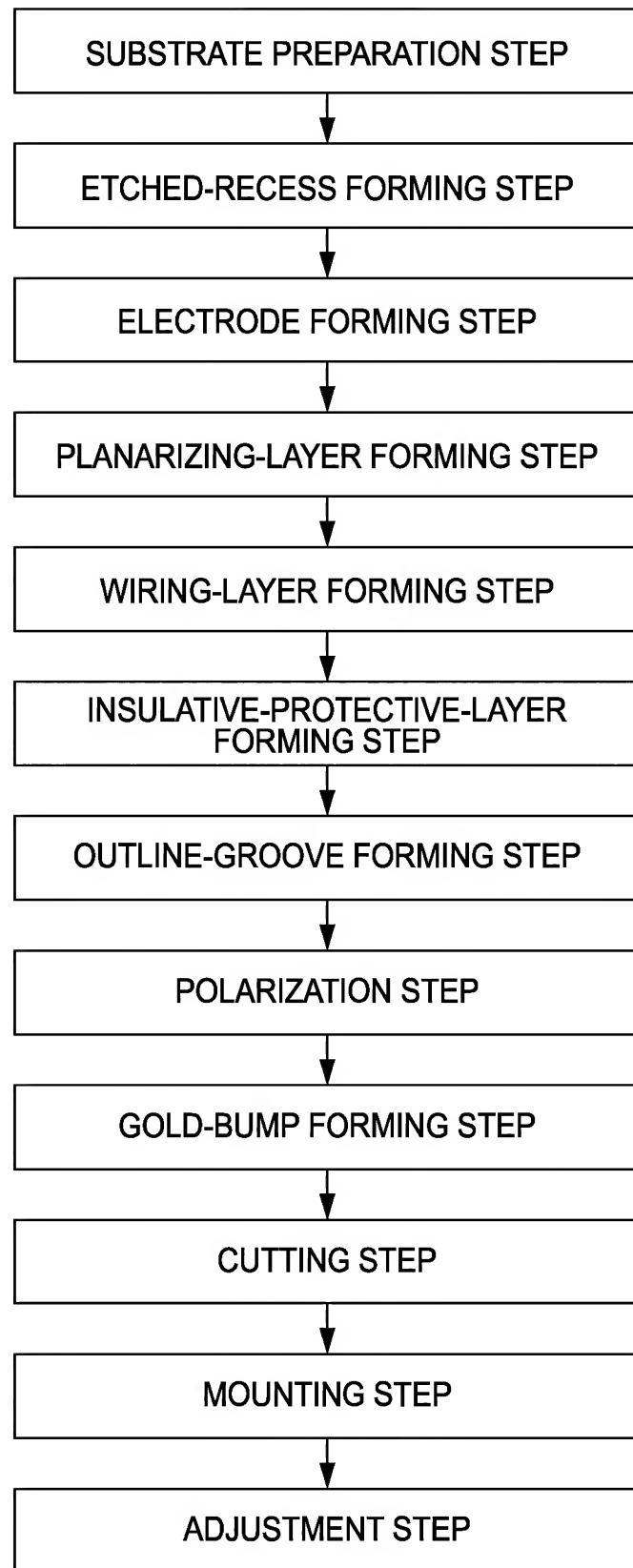


FIG. 11

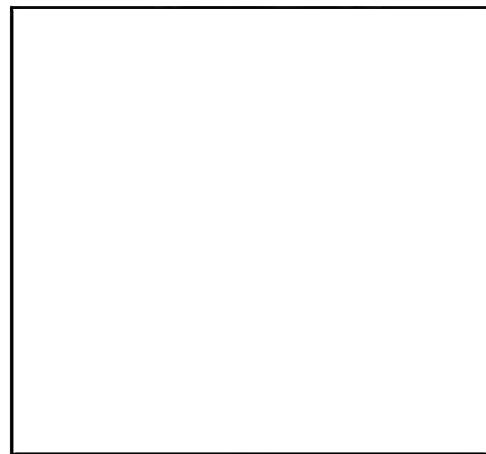


FIG. 12

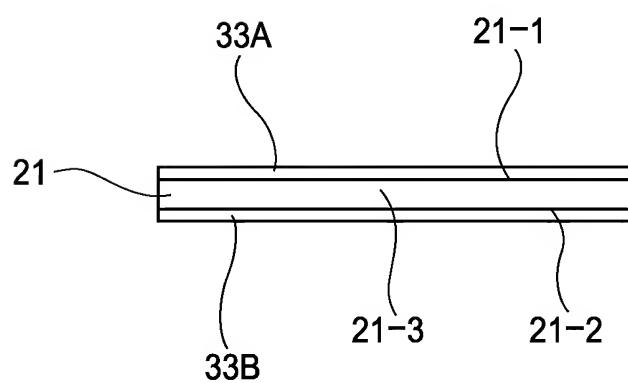


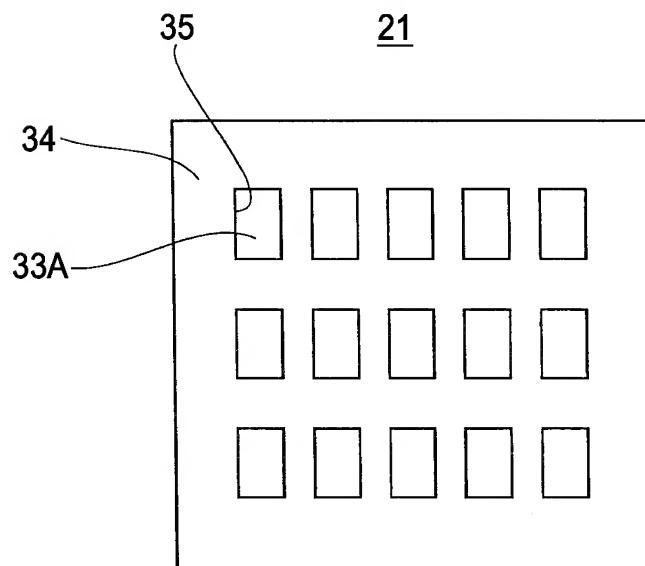
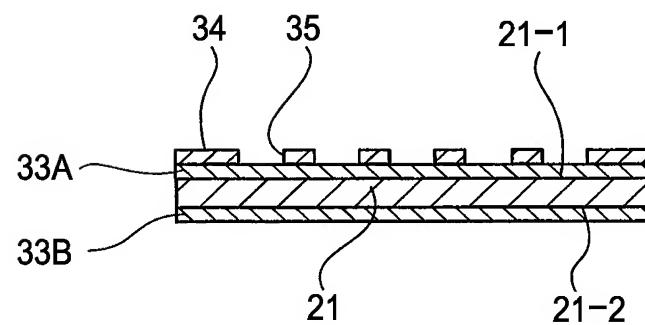
FIG. 13**FIG. 14**

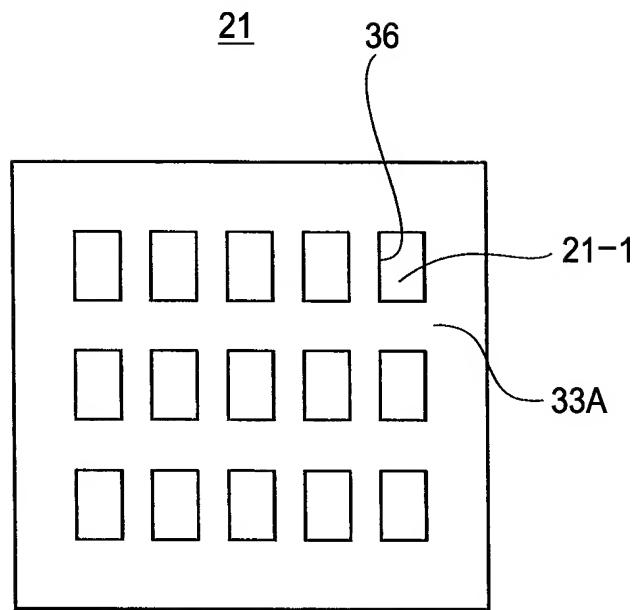
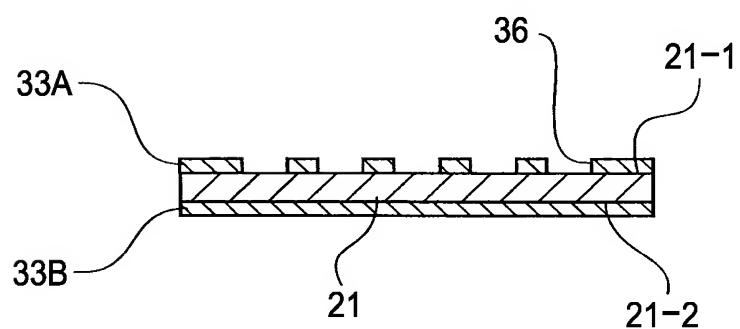
FIG. 15**FIG. 16**

FIG. 17

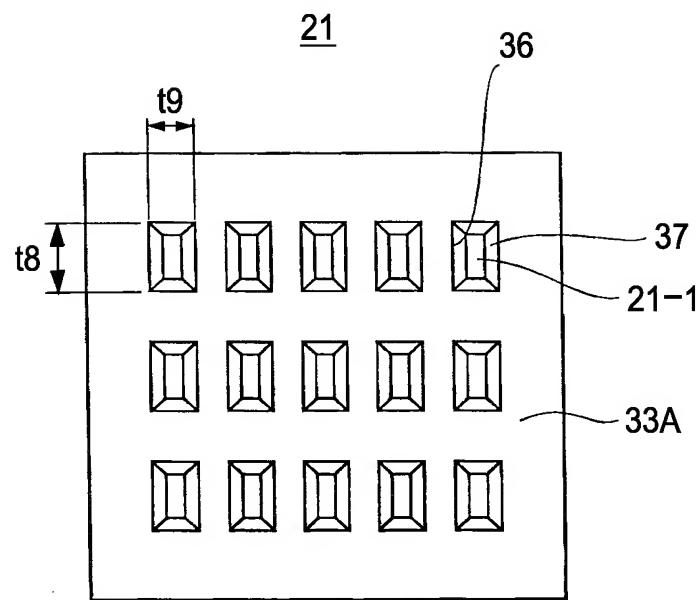


FIG. 18

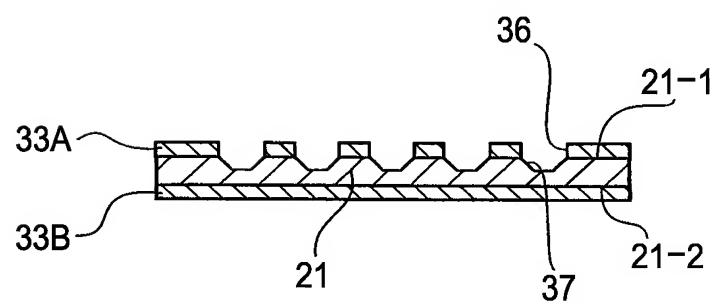


FIG. 19

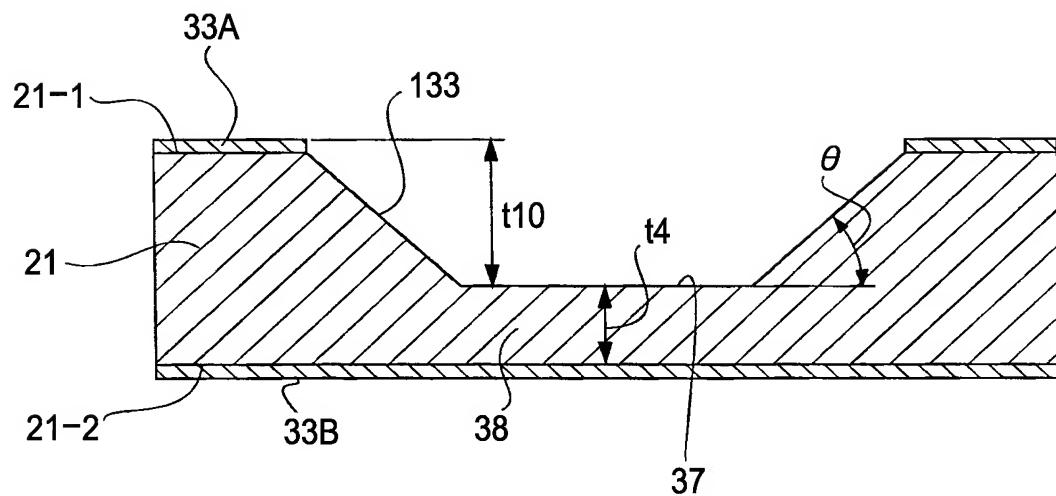


FIG. 20

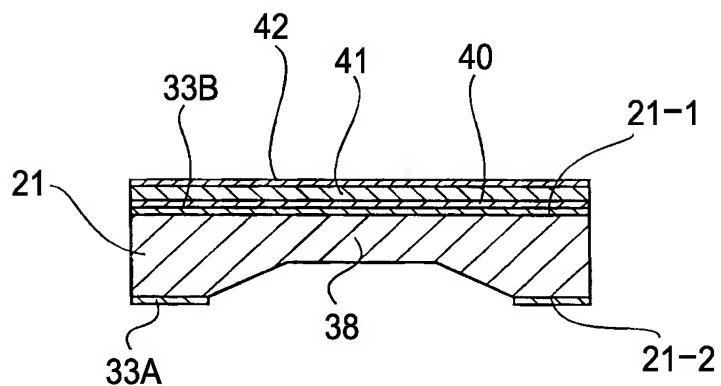


FIG. 21

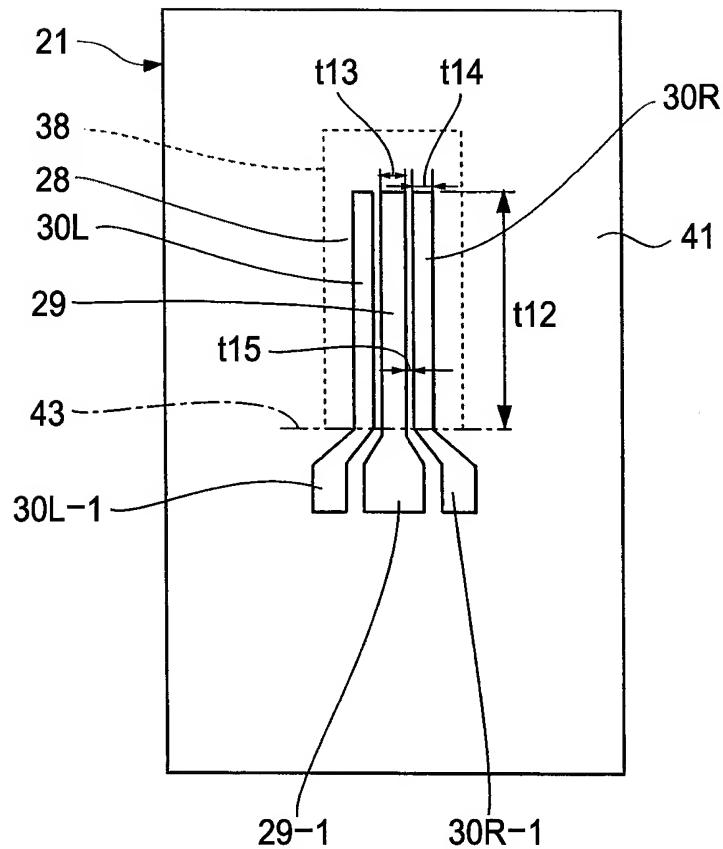


FIG. 22

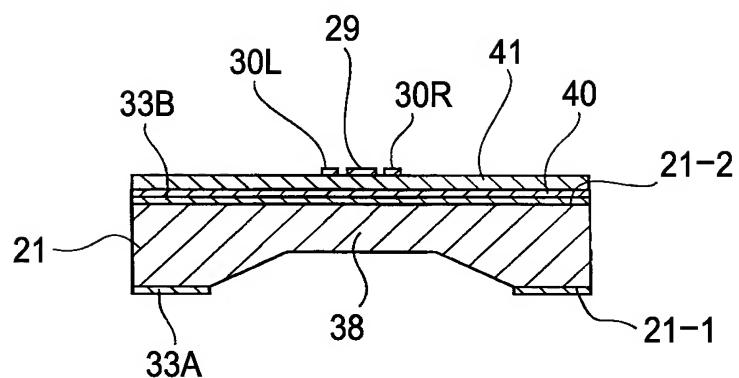


FIG. 23

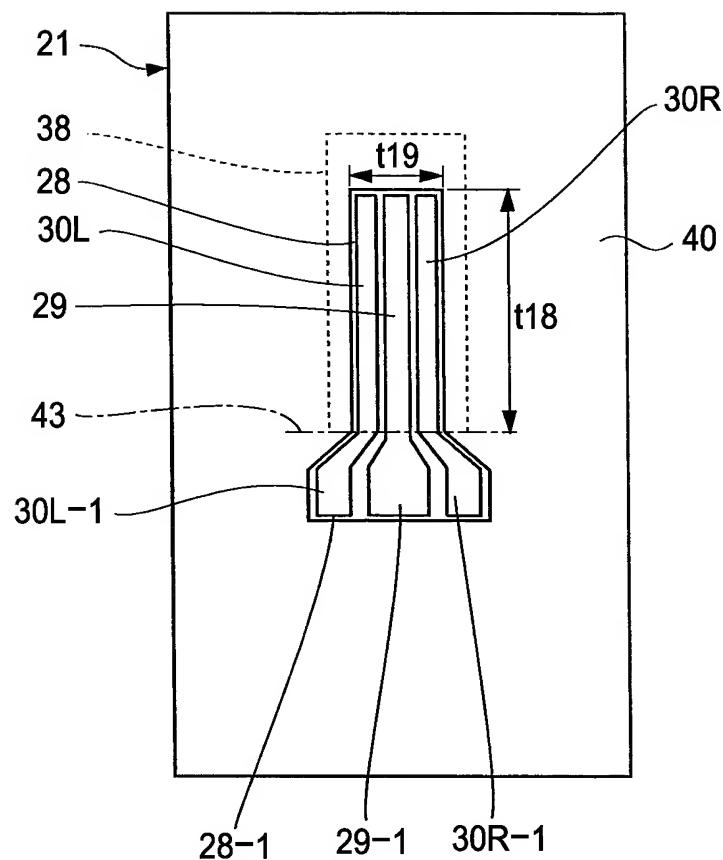


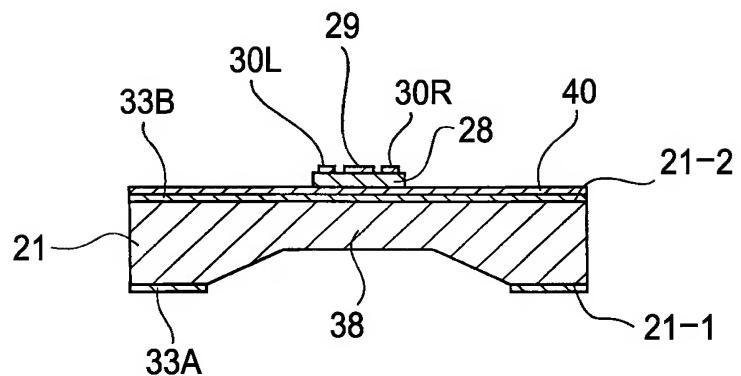
FIG. 24

FIG. 25

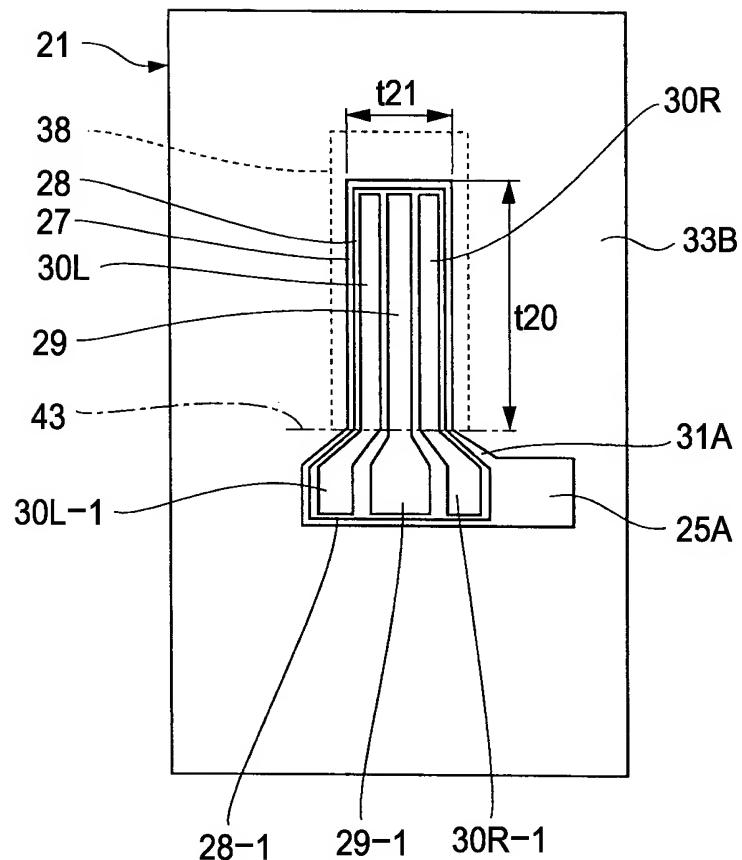


FIG. 26

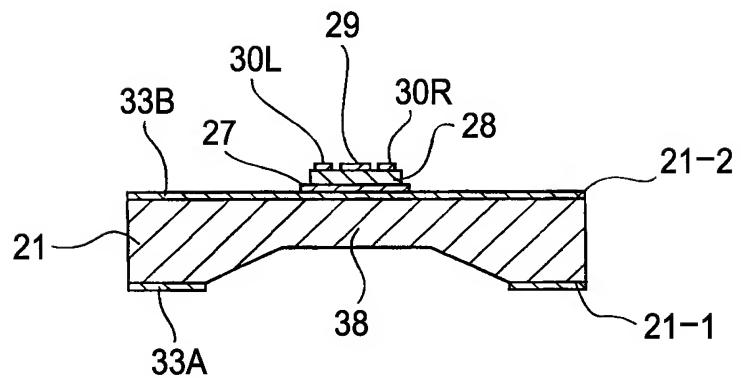


FIG. 27

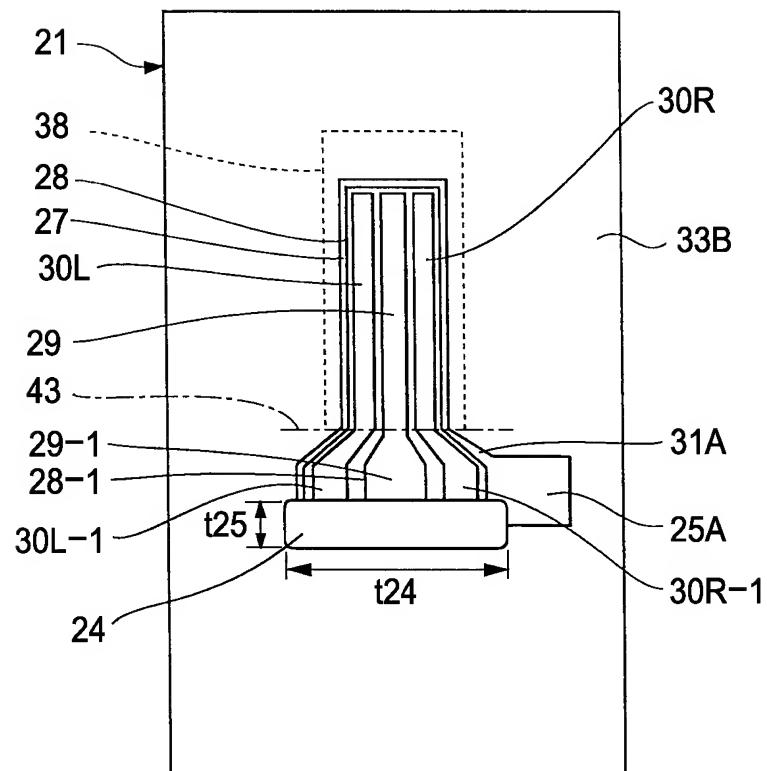


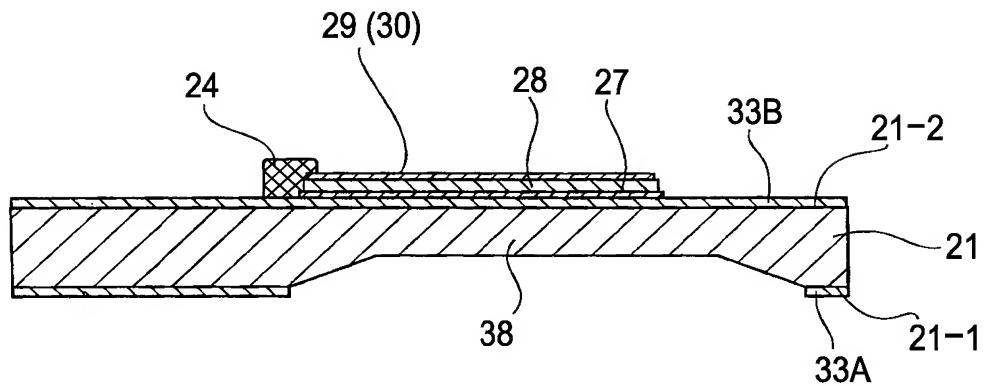
FIG. 28

FIG. 29

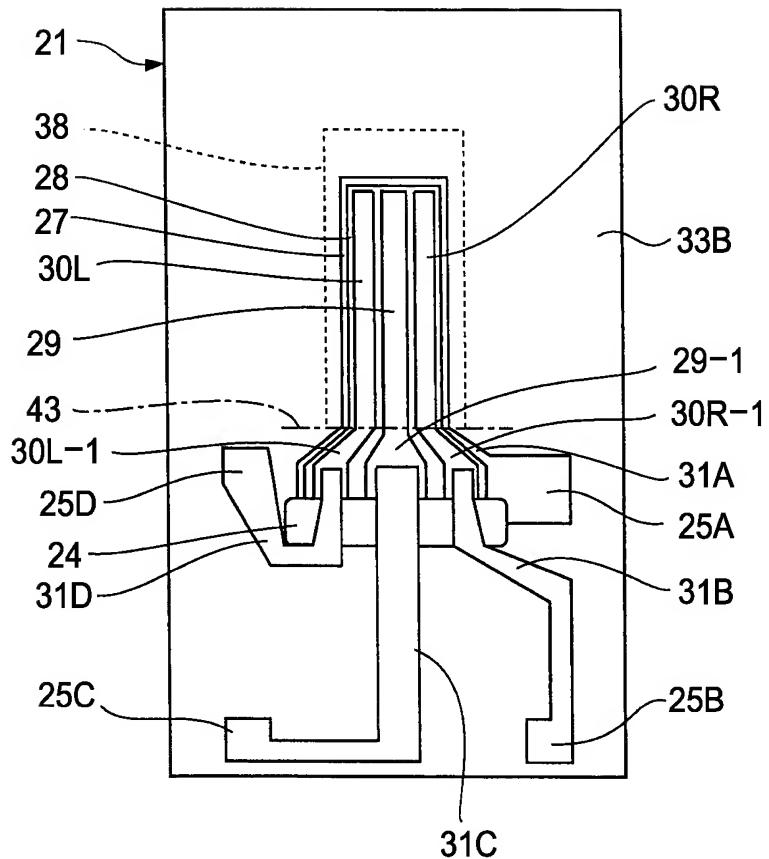


FIG. 30

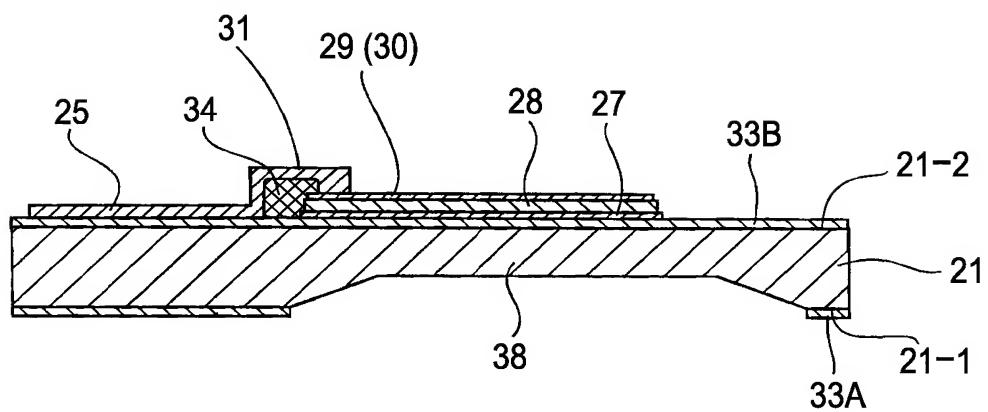


FIG. 31

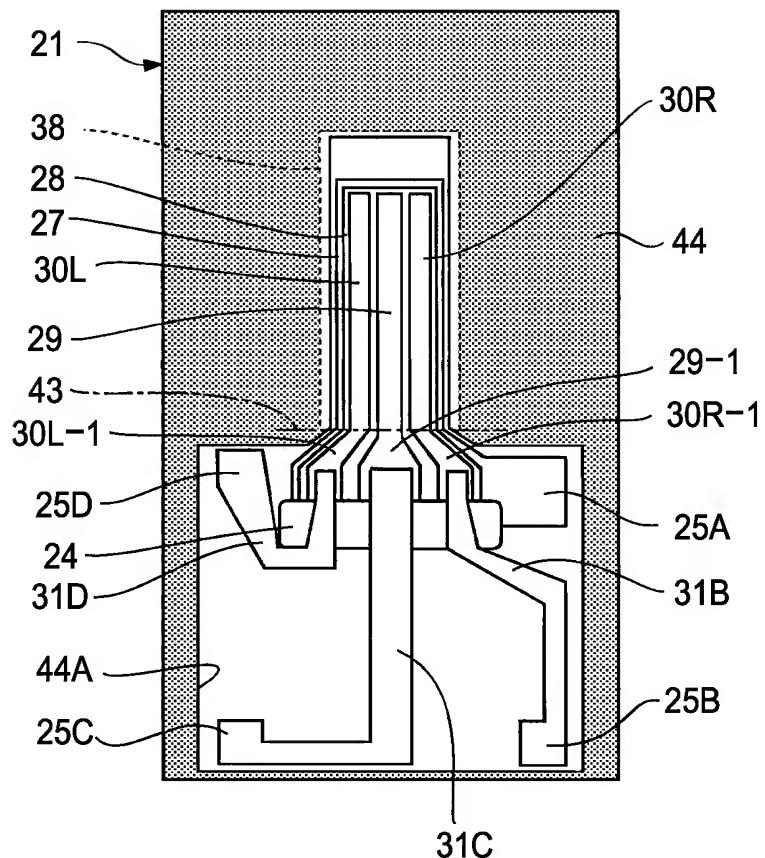


FIG. 32

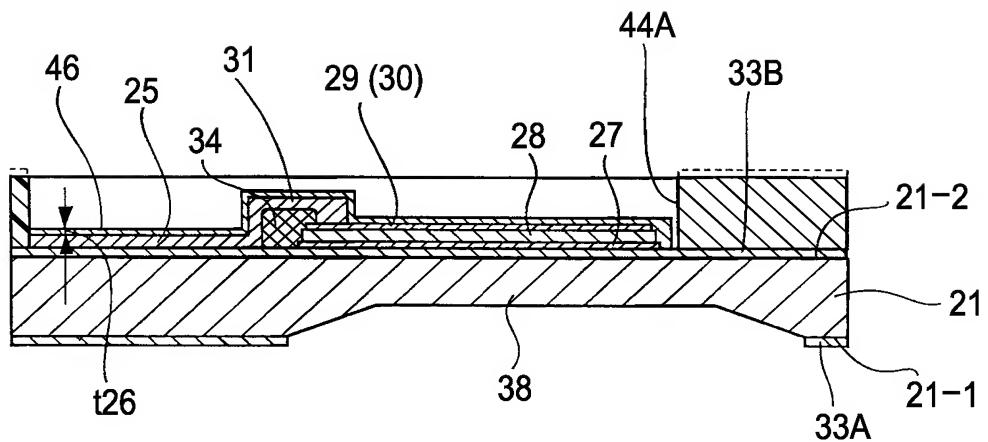


FIG. 33

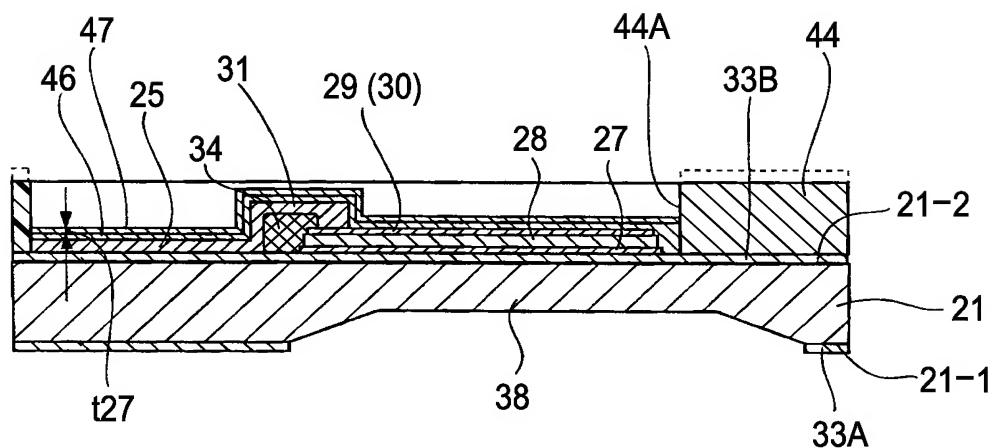


FIG. 34

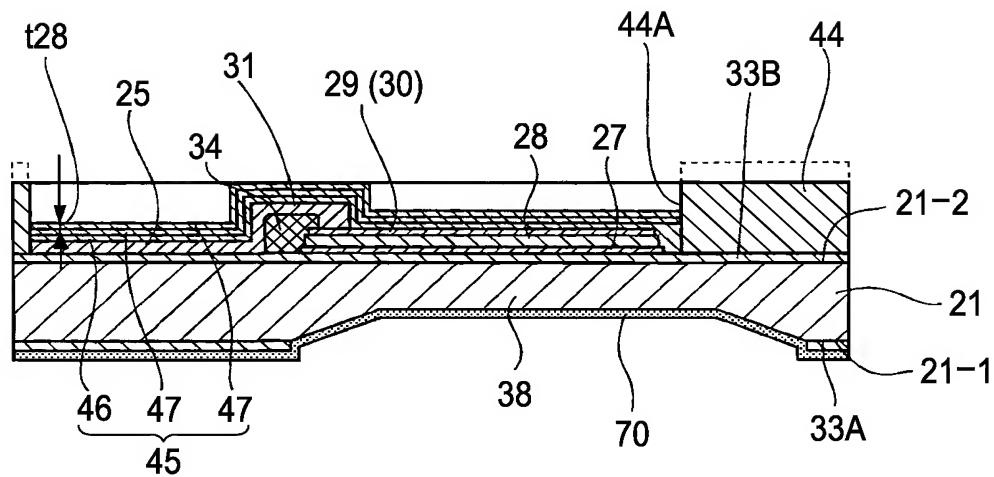


FIG. 35

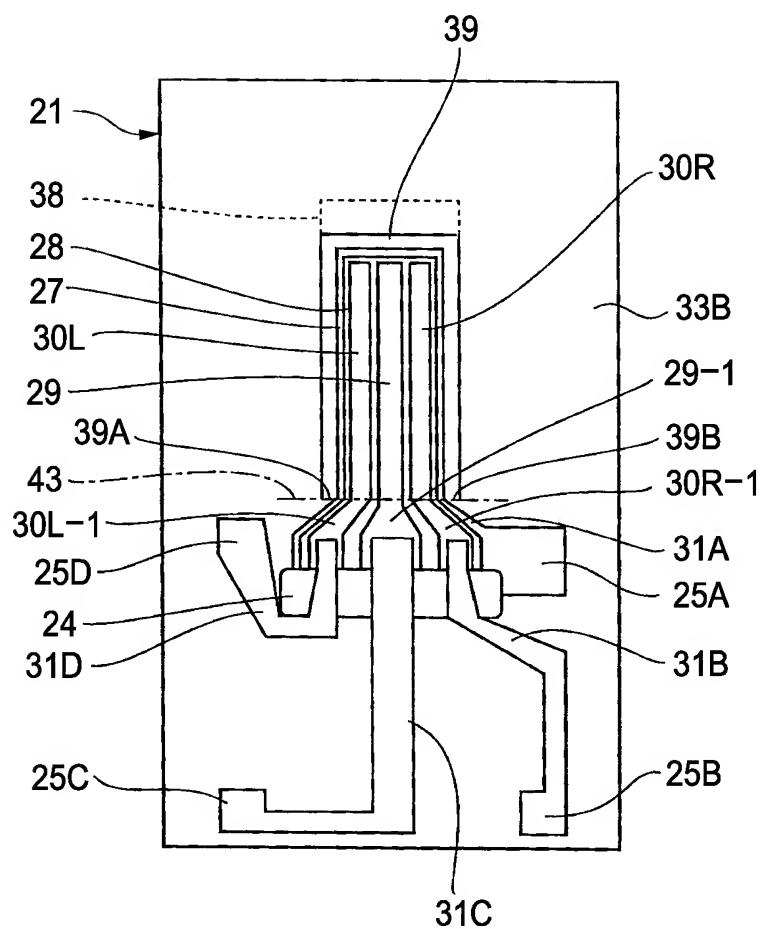
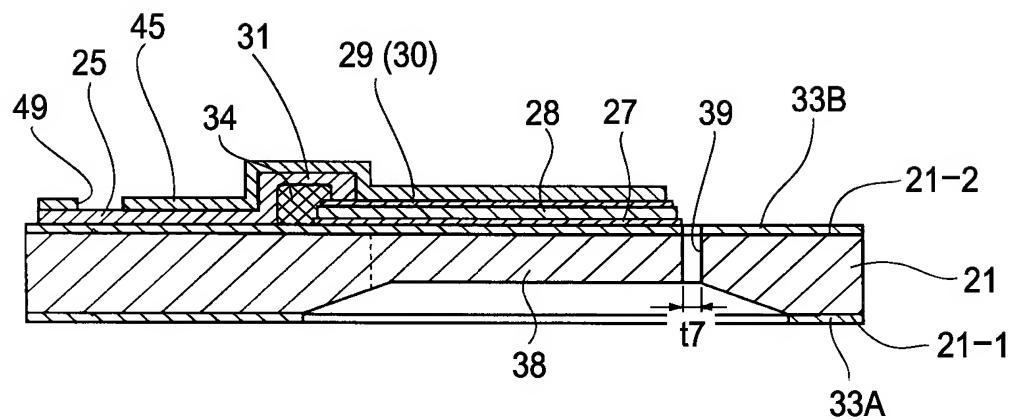


FIG. 36



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FIG. 37

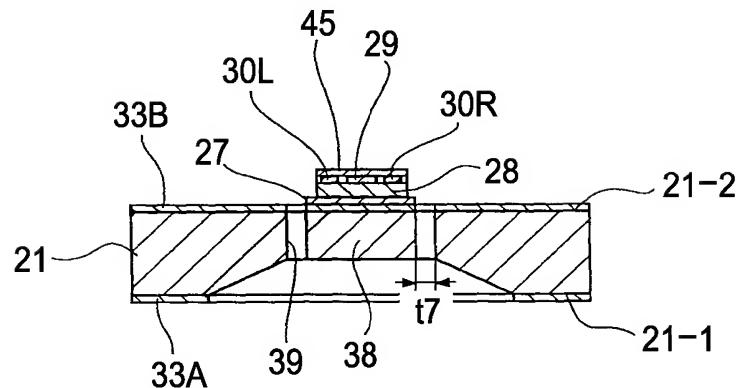


FIG. 38A

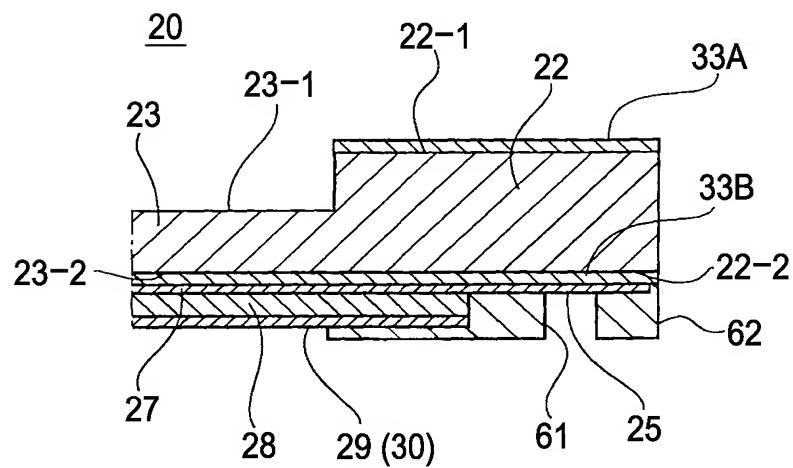


FIG. 38B

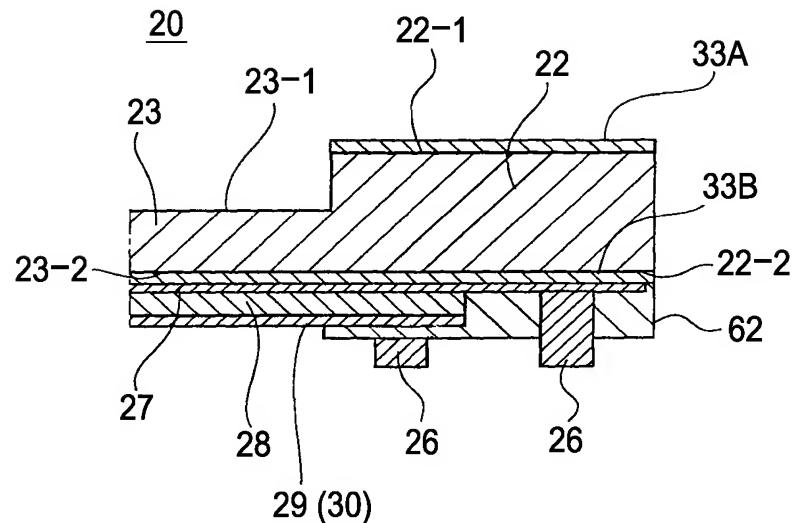


FIG. 39A

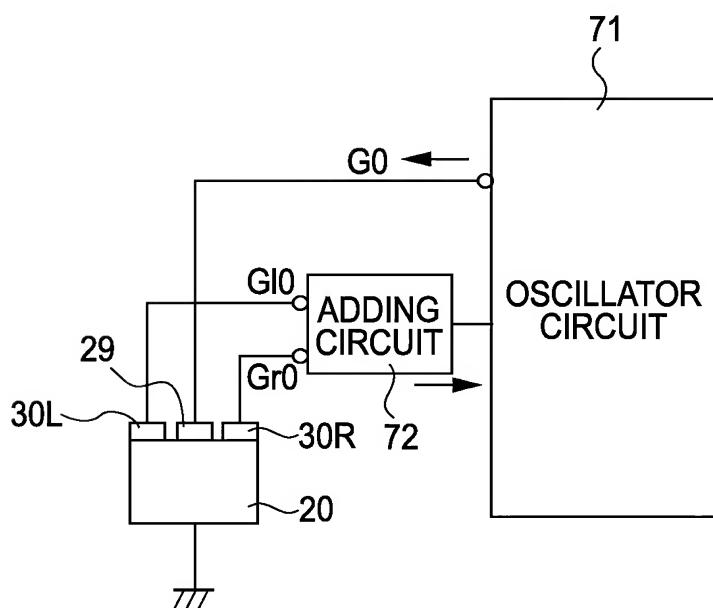


FIG. 39B

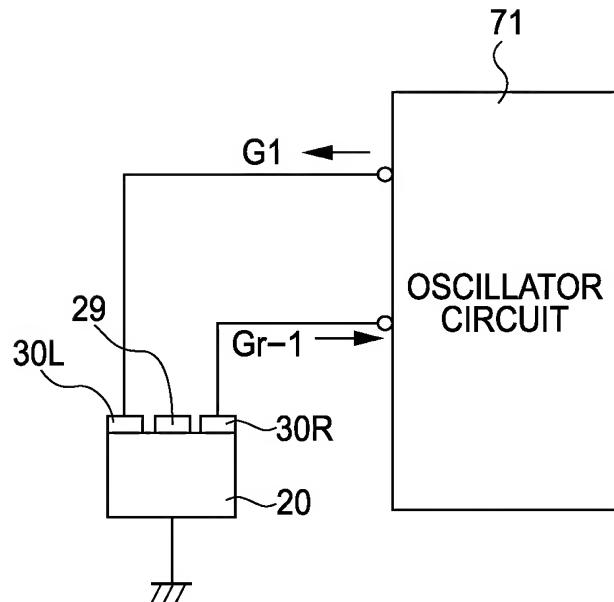


FIG. 39C

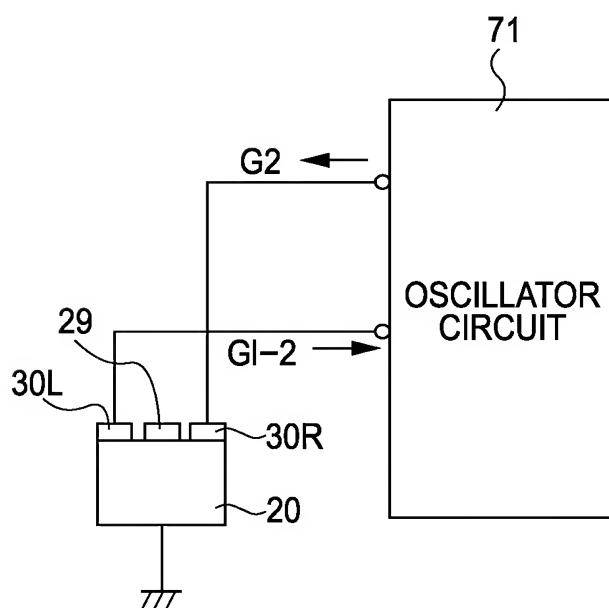


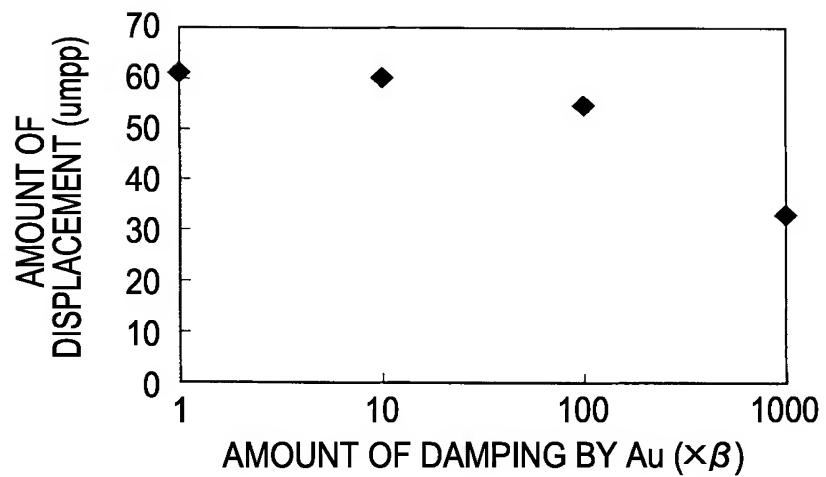
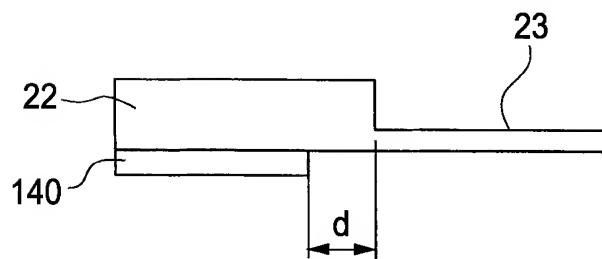
FIG. 40**FIG. 41A**

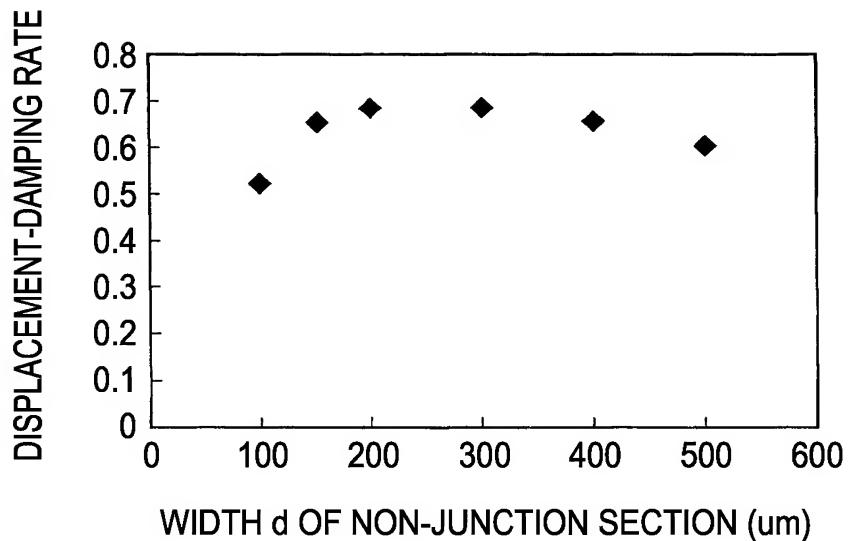
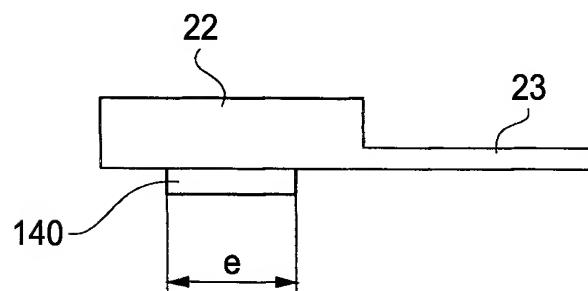
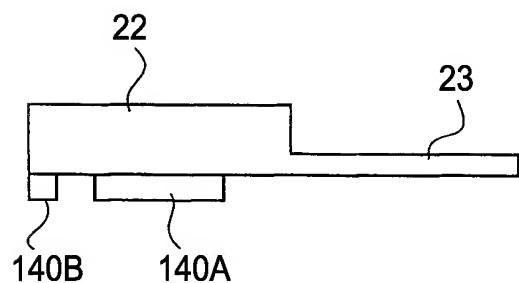
FIG. 41B**FIG. 42A****FIG. 42B**

FIG. 42C

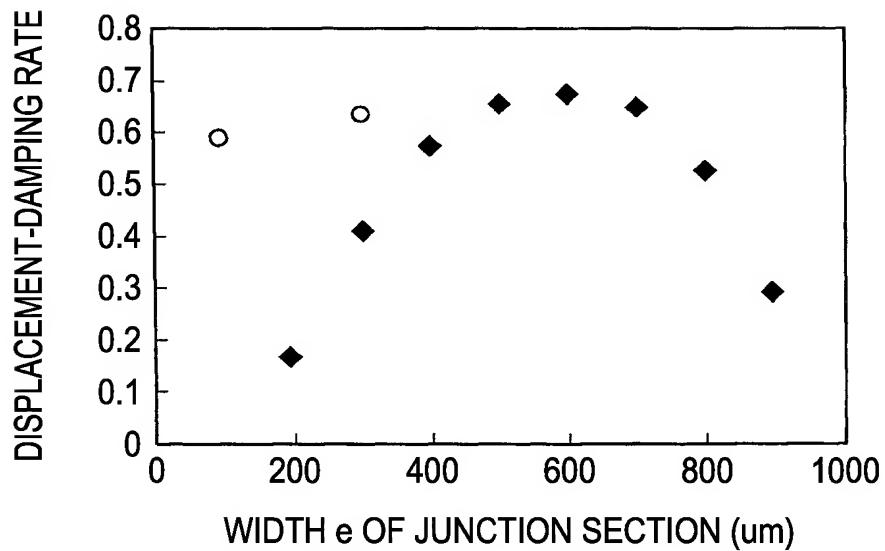


FIG. 43A

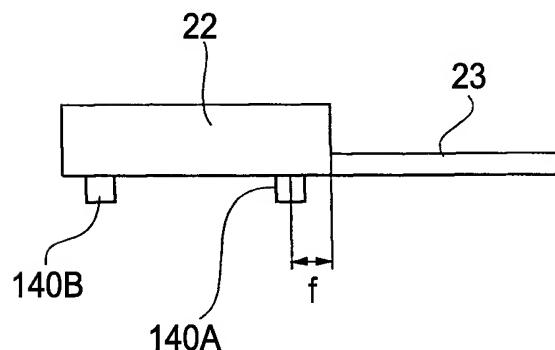


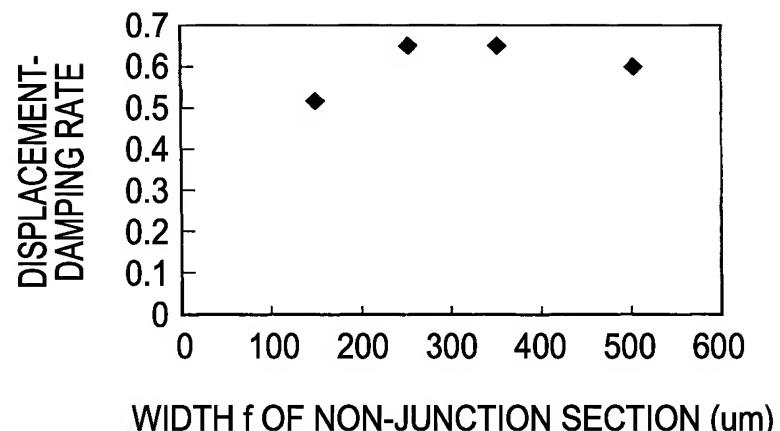
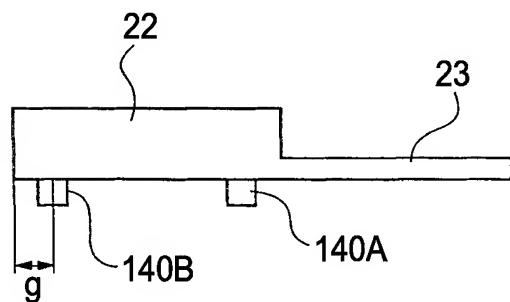
FIG. 43B**FIG. 44A**

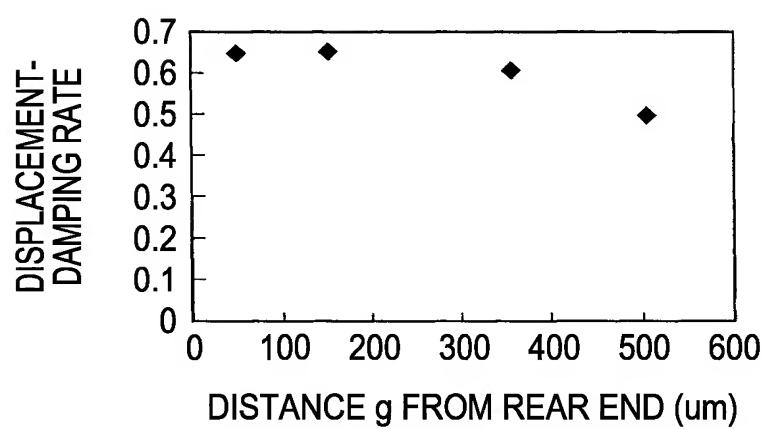
FIG. 44B

FIG. 45

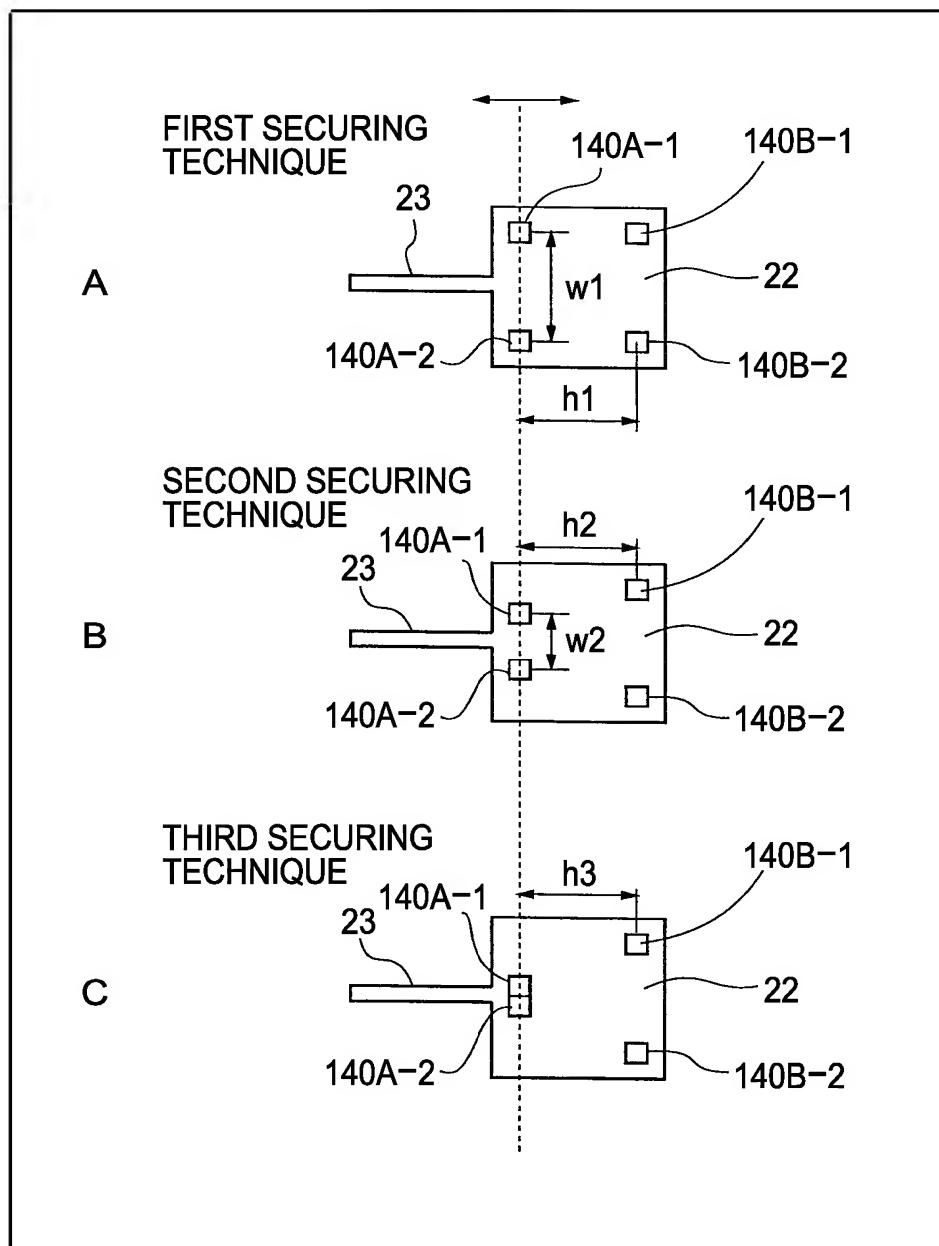


FIG. 46

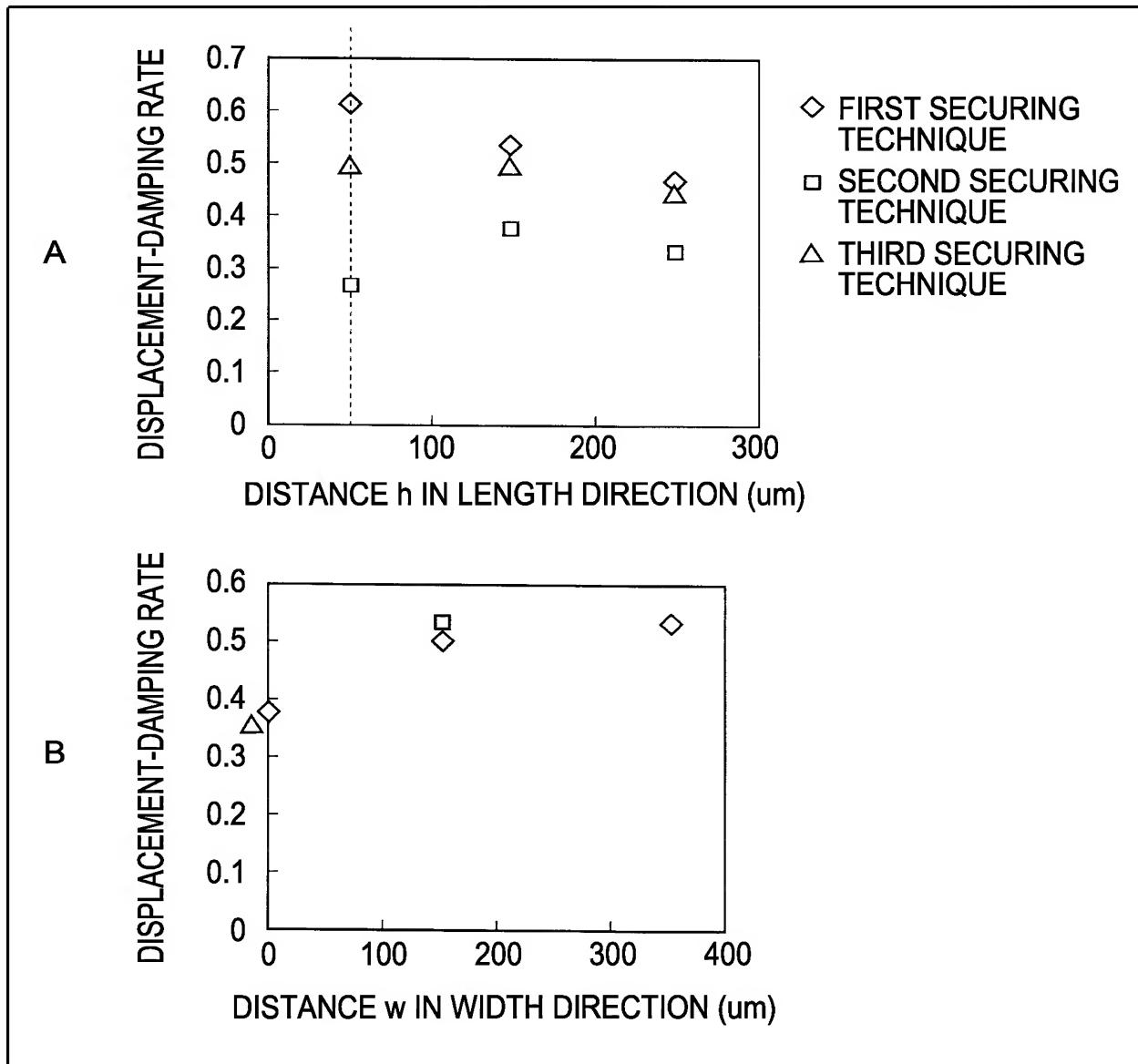


FIG. 47A

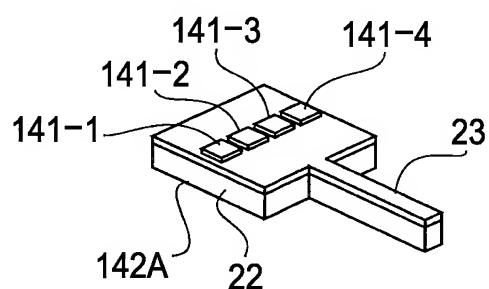


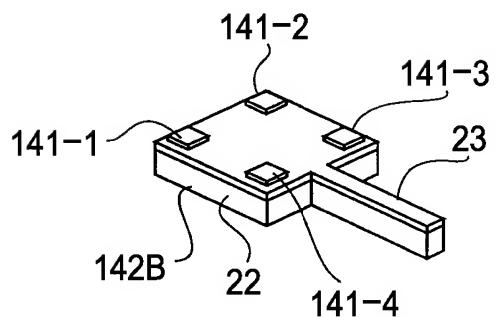
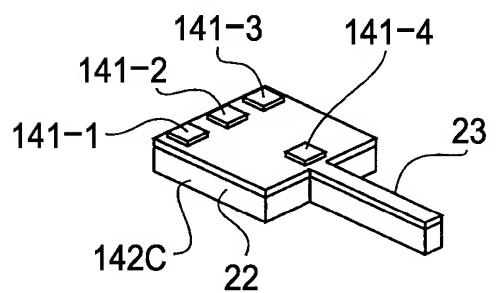
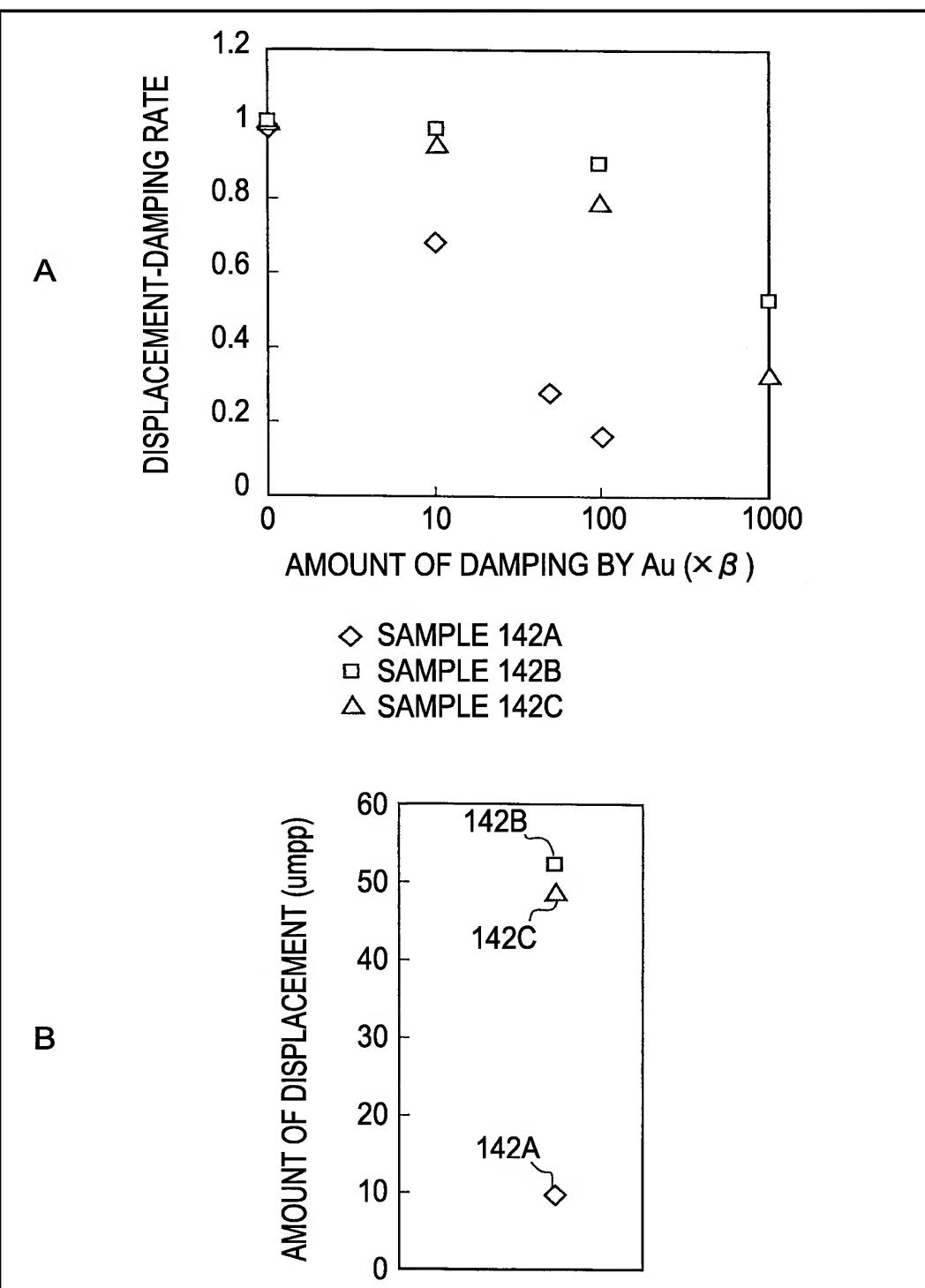
FIG. 47B**FIG. 47C**

FIG. 48



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FIG. 49A

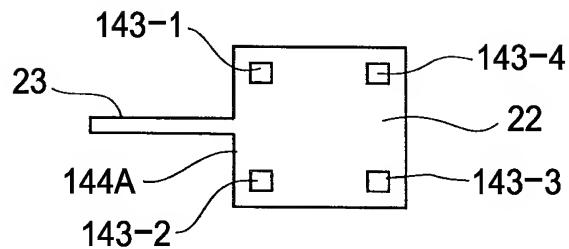


FIG. 49B

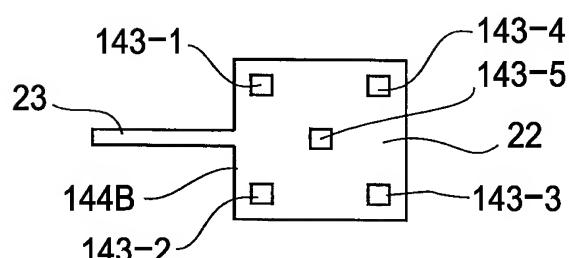


FIG. 49C

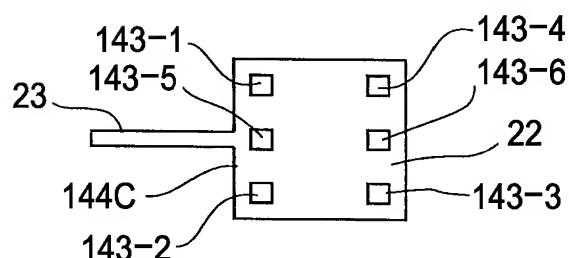


FIG. 49D

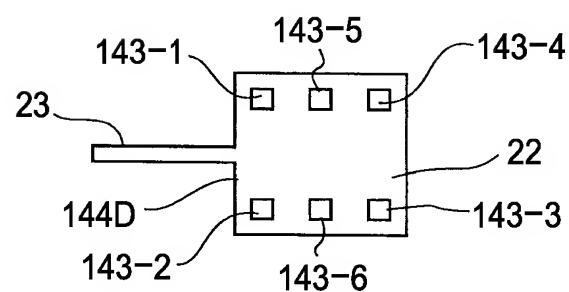


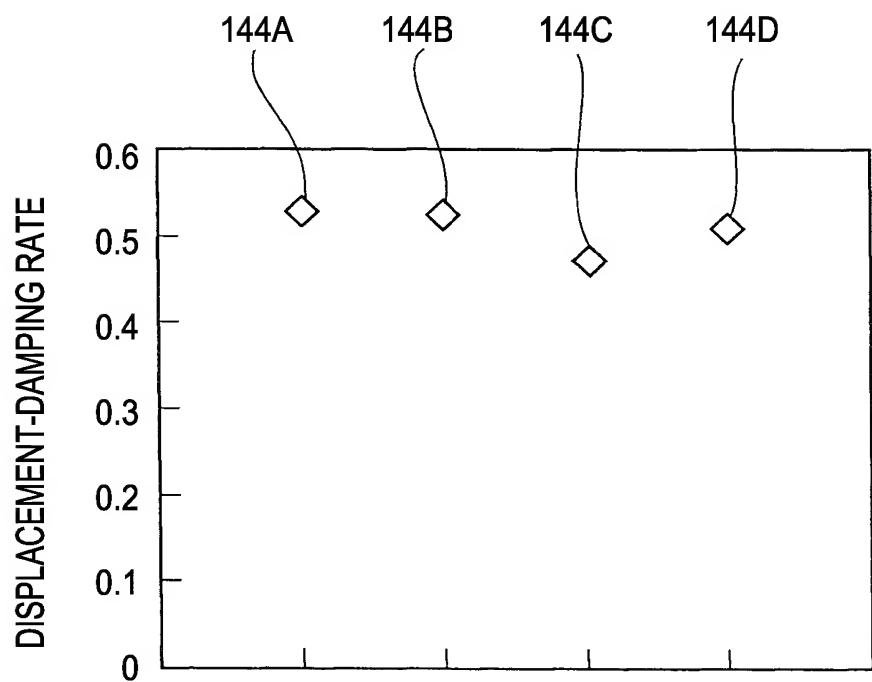
FIG. 50

FIG. 51

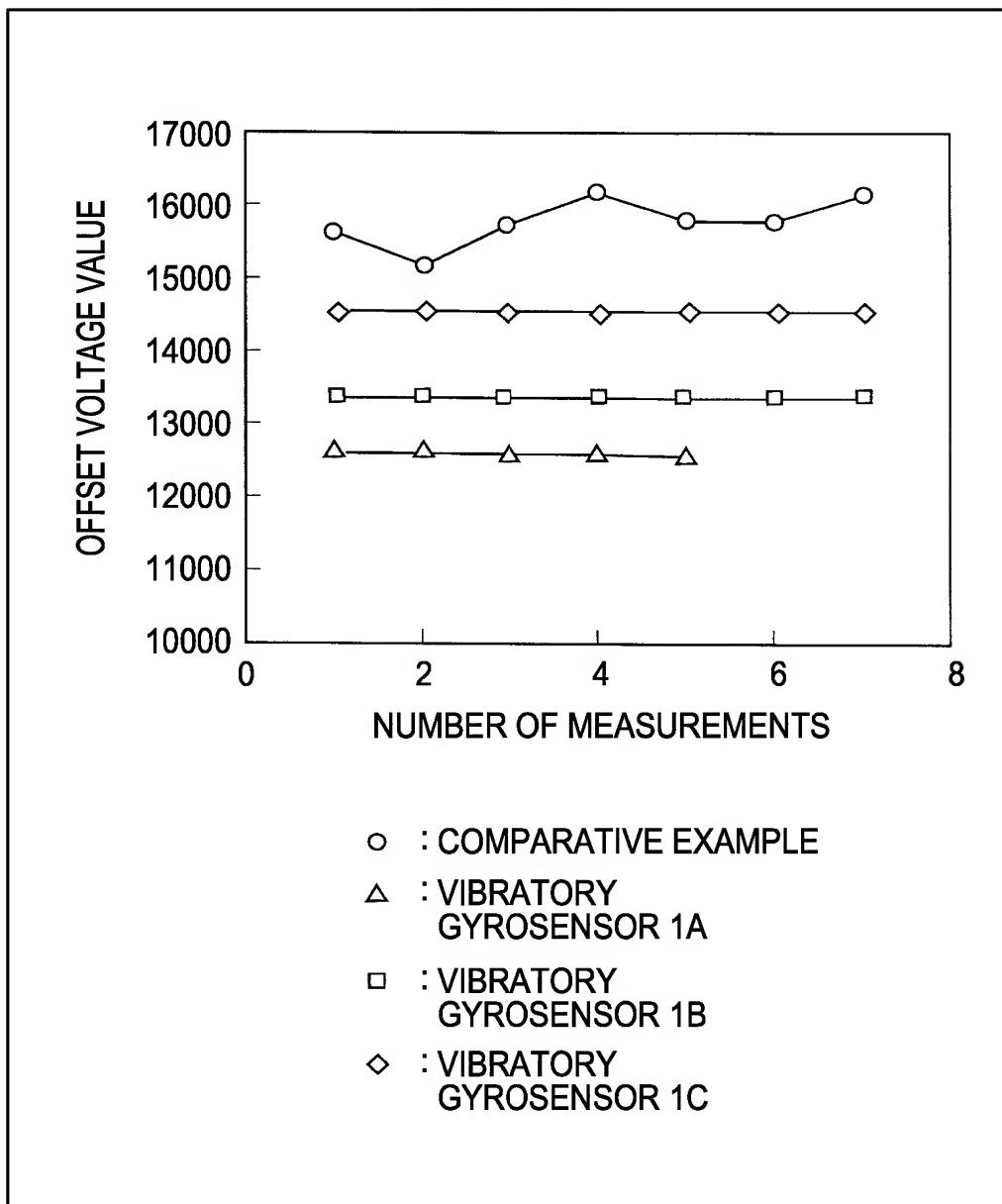


FIG. 52

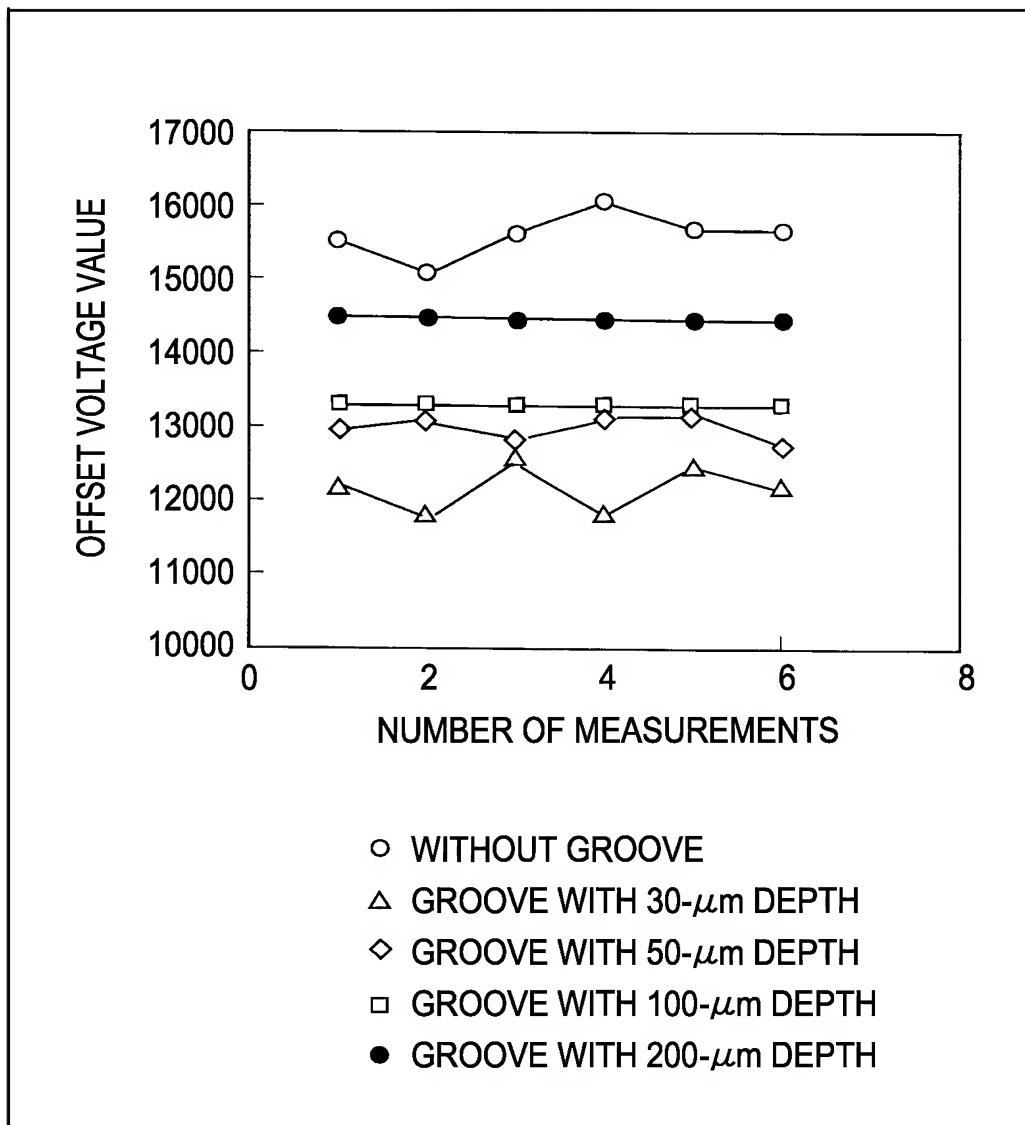


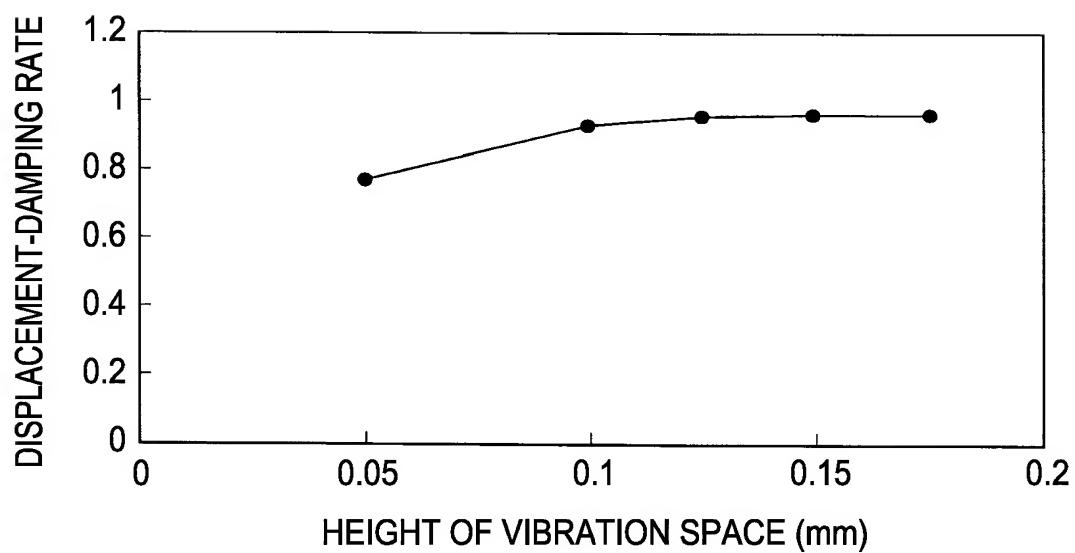
FIG. 53

FIG. 54

	3cm-SQUARE SUBSTRATE	4in- ϕ SUBSTRATE	5in- ϕ SUBSTRATE
ONE-AXIS VIBRATION ELEMENTS	60 (30)	1200 (600)	4000 (2000)
TWO-AXIS INTEGRATED VIBRATION ELEMENTS	20	300	800

FIG. 55

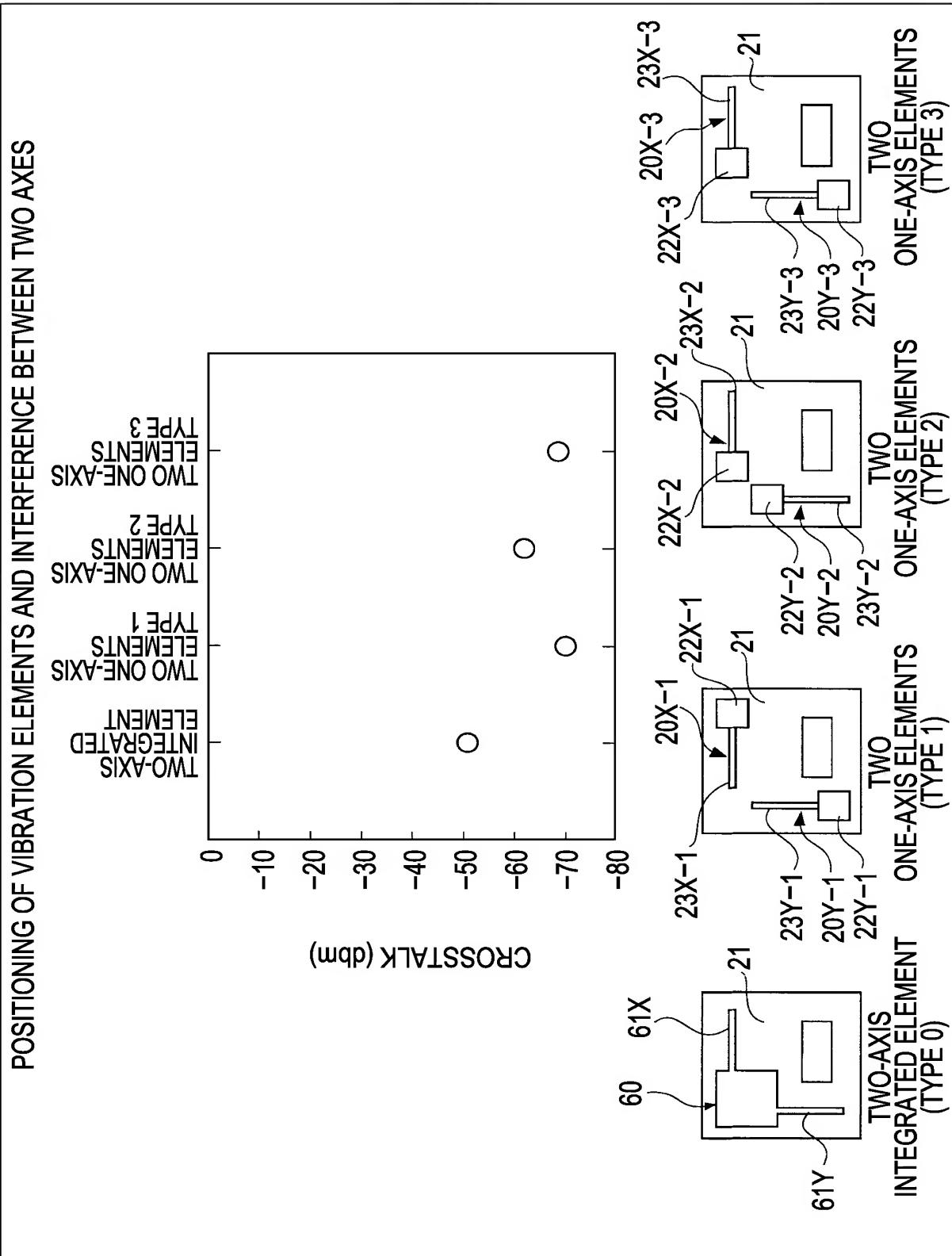


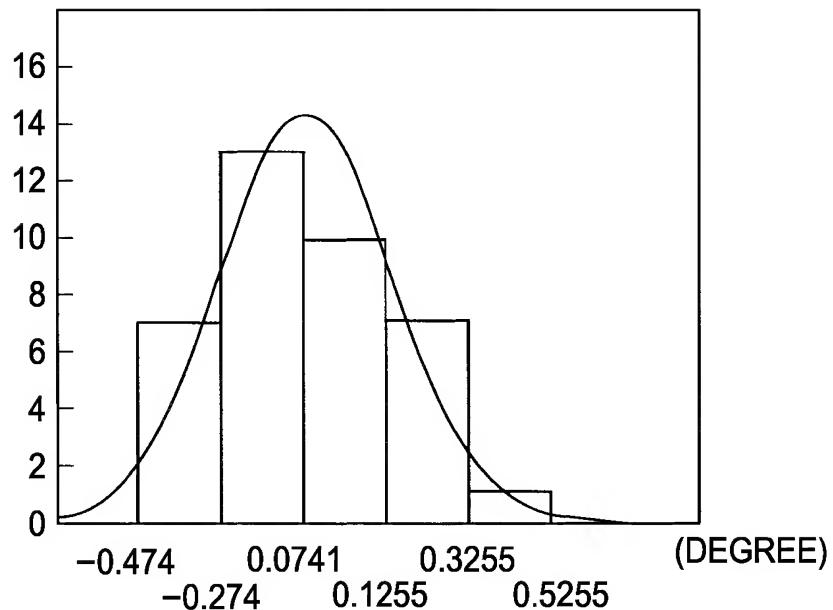
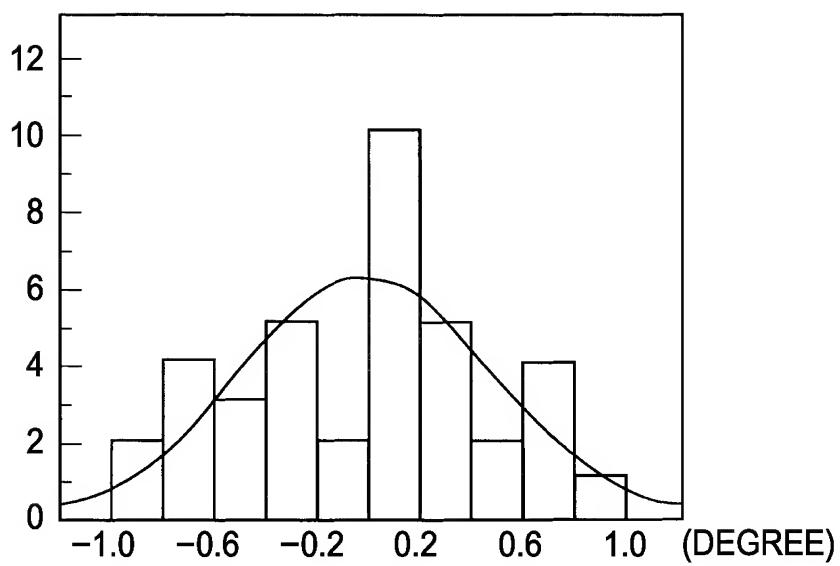
FIG. 56A**FIG. 56B**

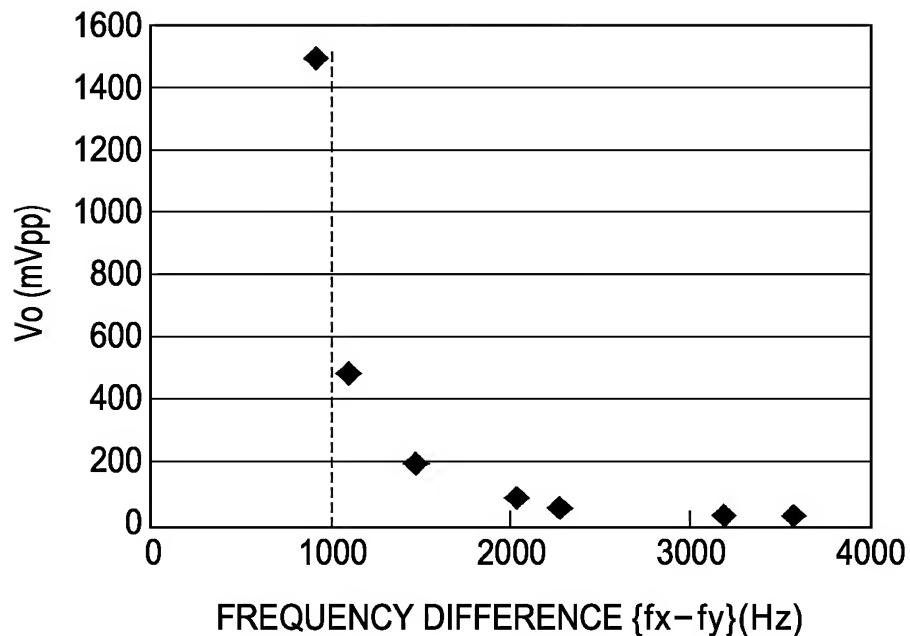
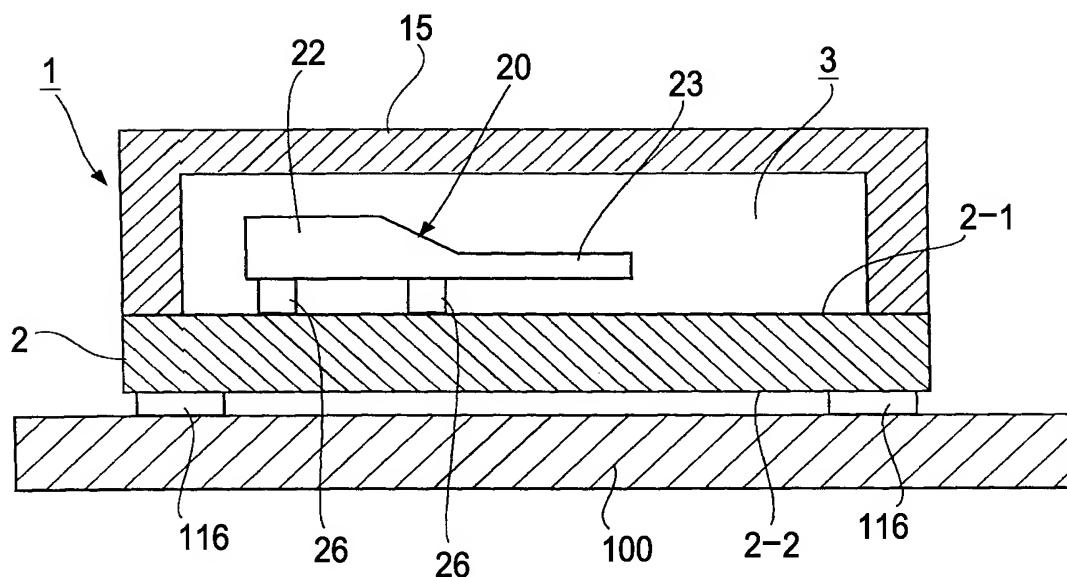
FIG. 57**FIG. 58**

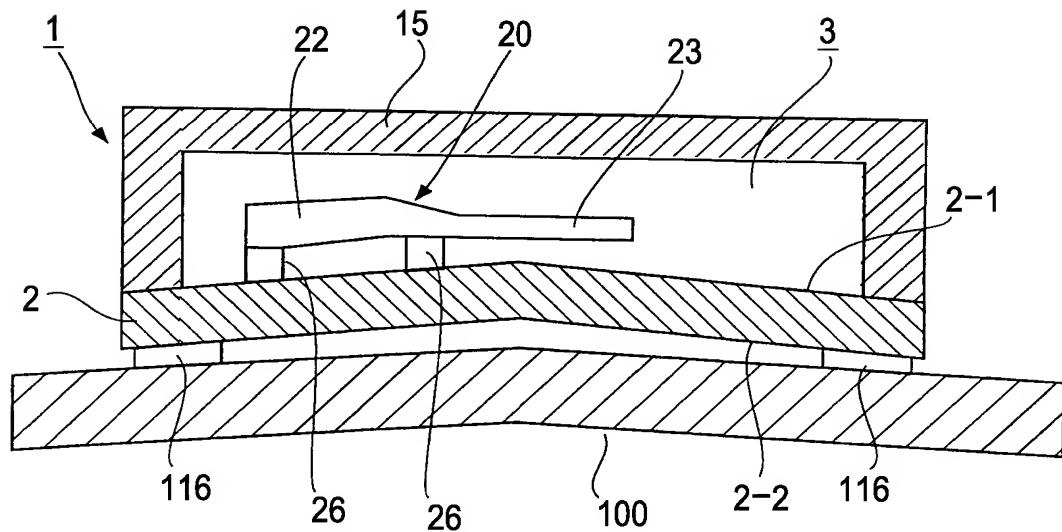
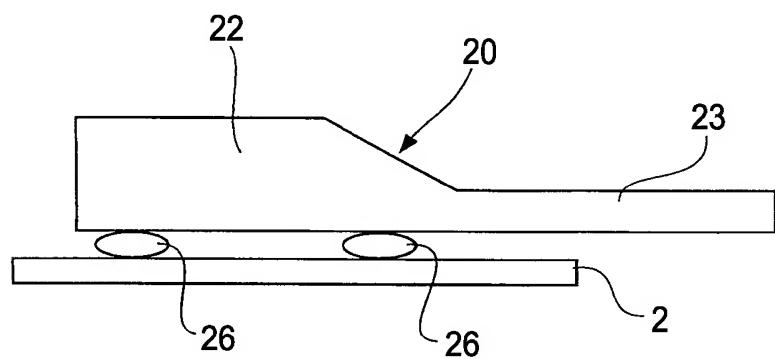
FIG. 59**FIG. 60A**

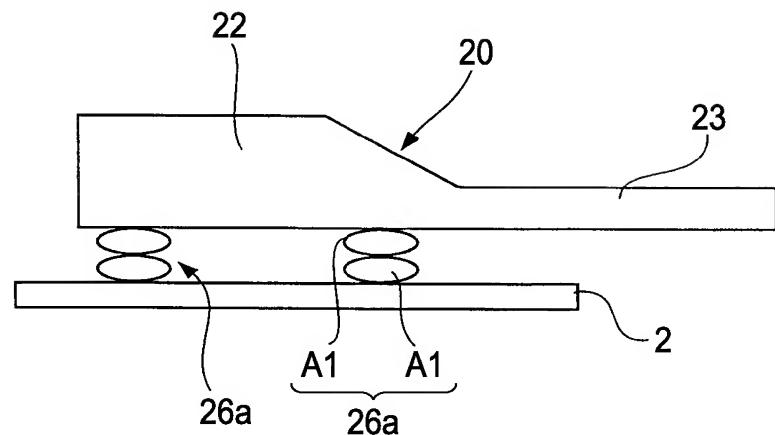
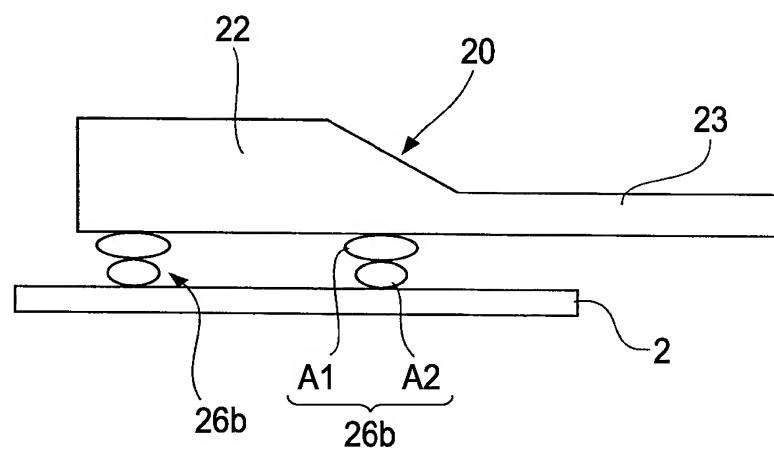
FIG. 60B**FIG. 61A**

FIG. 61B

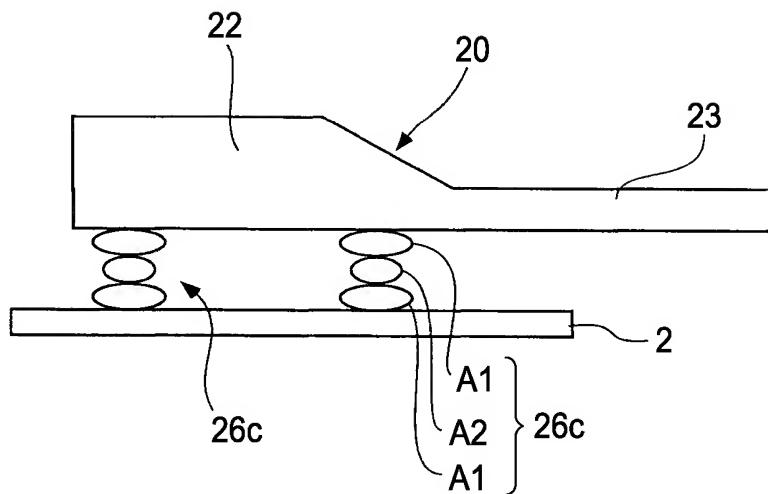


FIG. 62A

	LARGE (A1)	SMALL (A2)
WIDTH OF GOLD WIRE (μm)	38	25
BALL DIAMETER (μm)	130	90

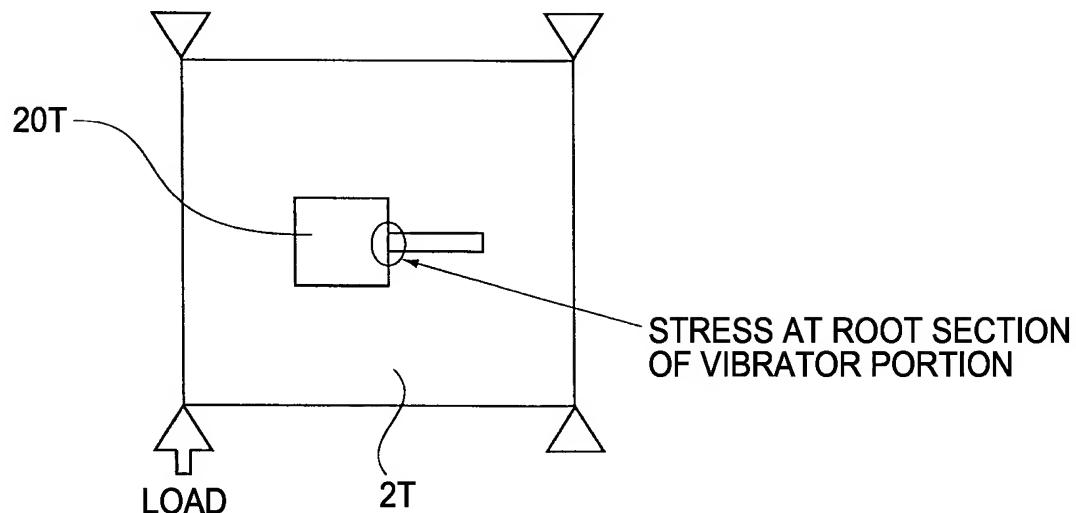
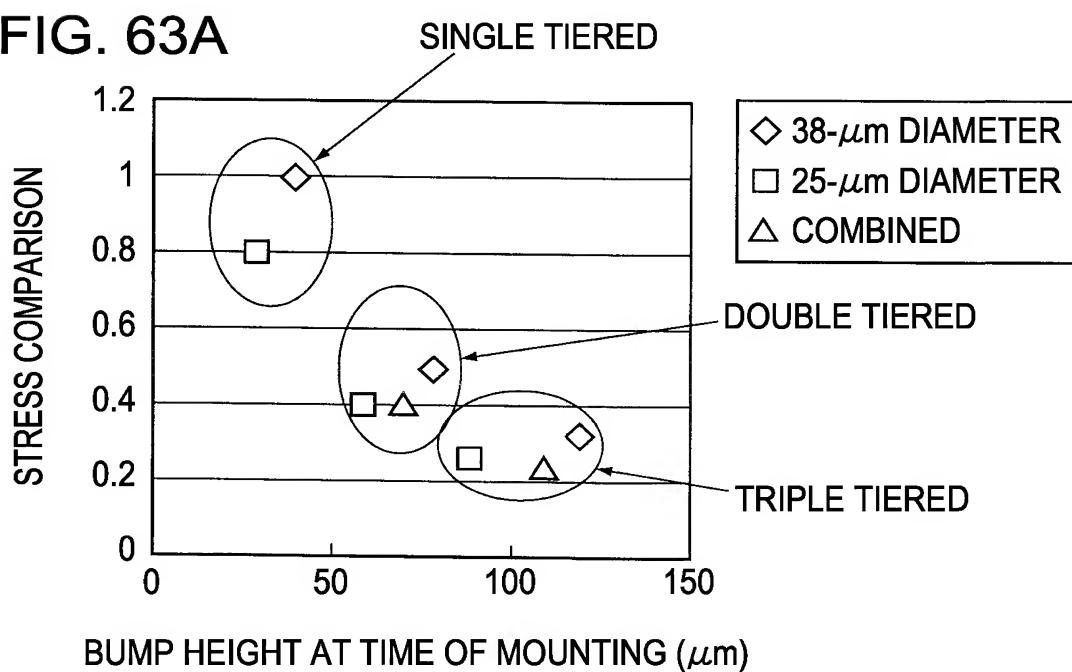
FIG. 62B**FIG. 63A**

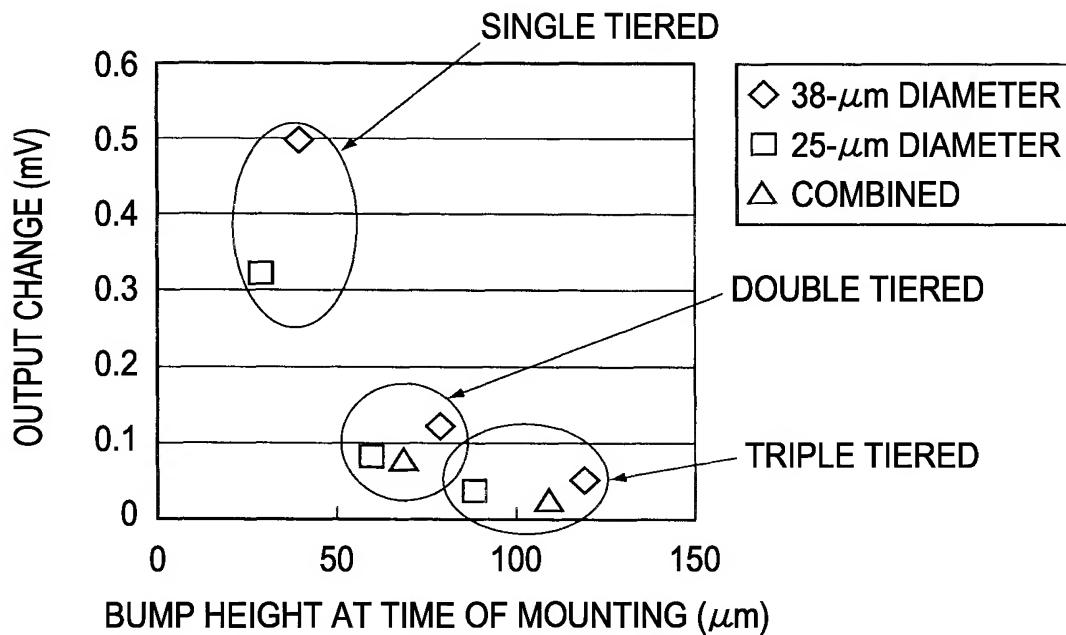
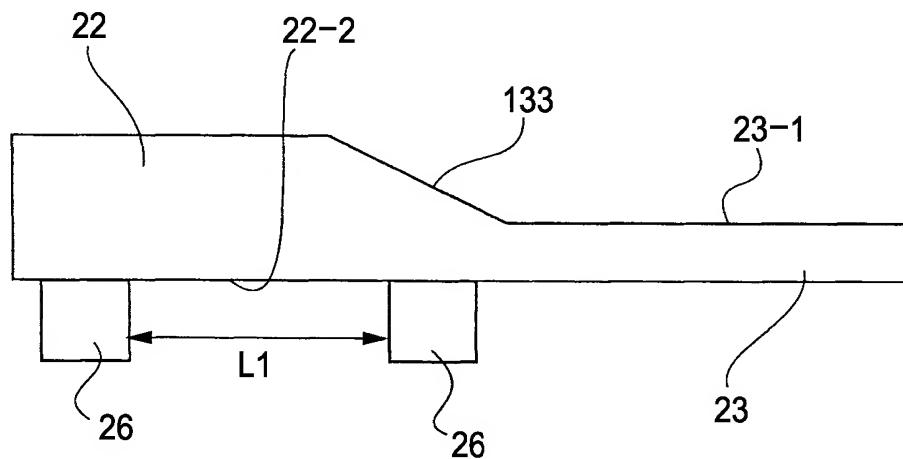
FIG. 63B**FIG. 64A**

FIG. 64B

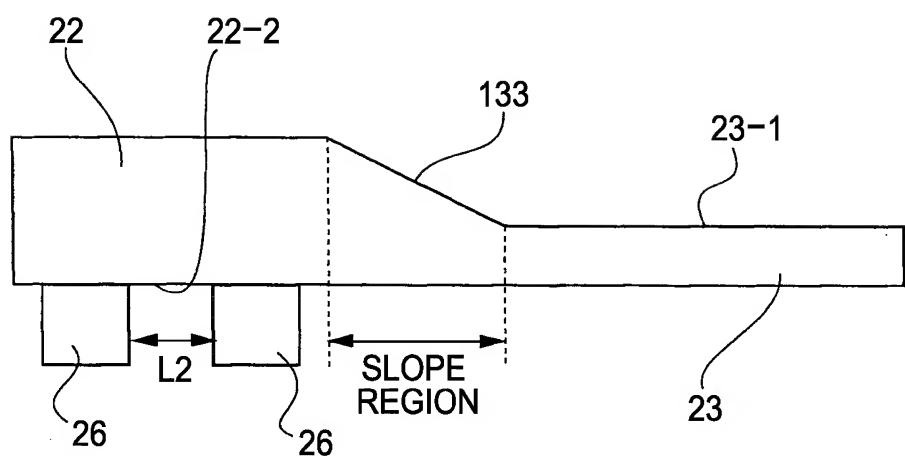


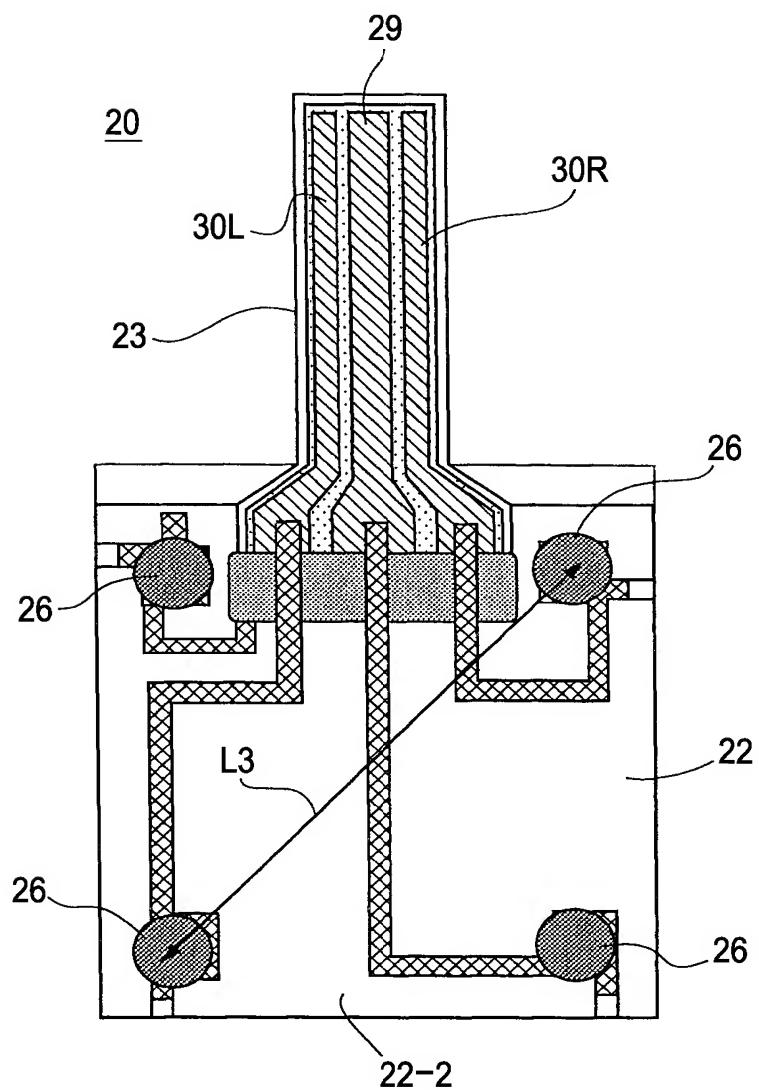
FIG. 65

FIG. 66

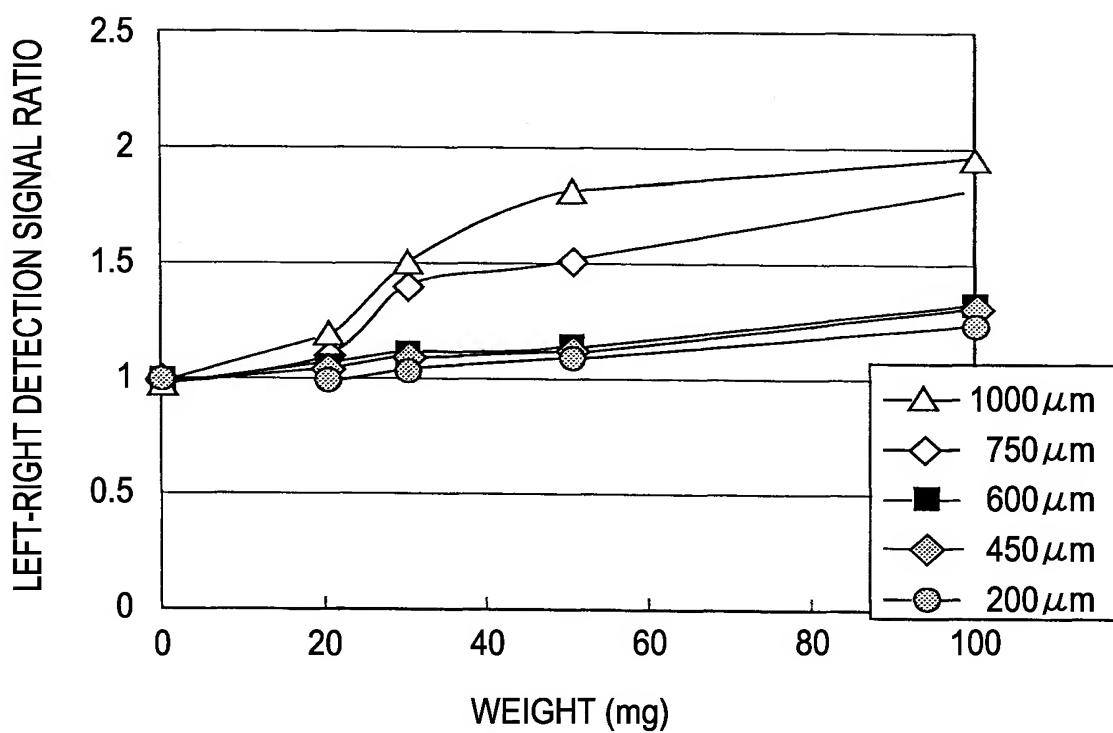


FIG. 67

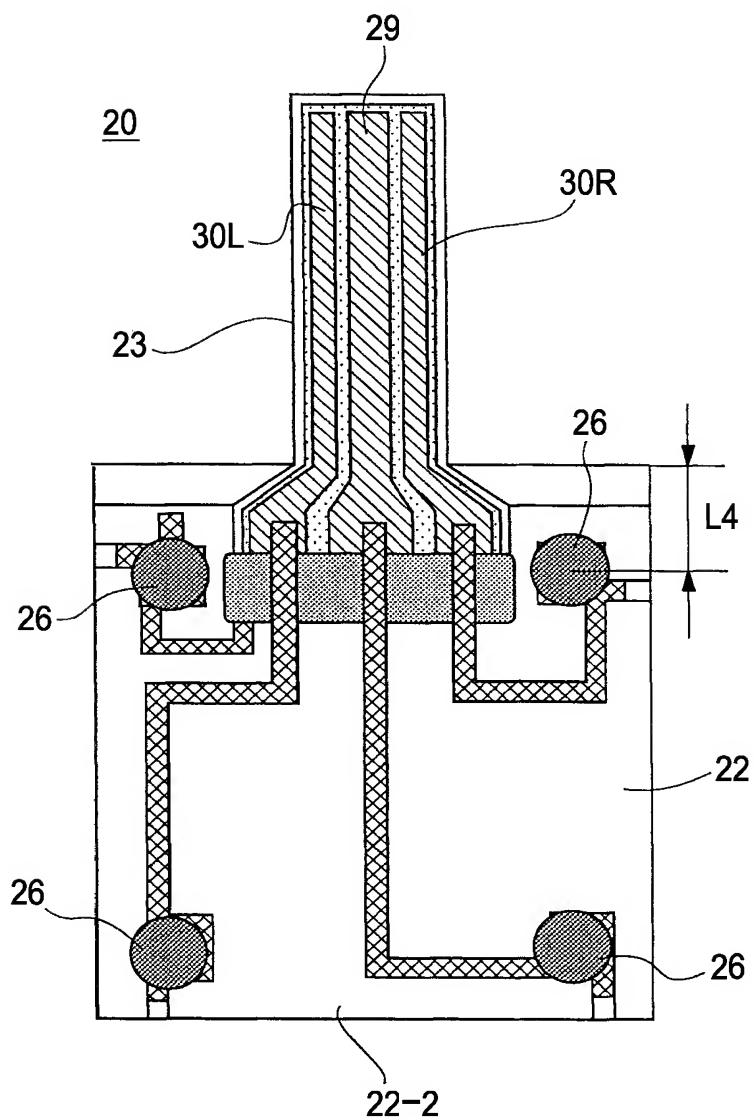


FIG. 68

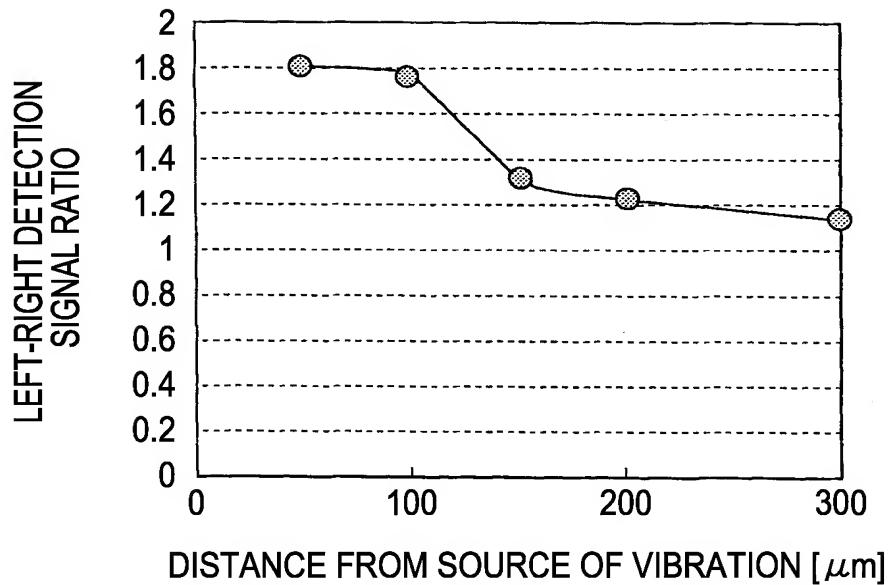


FIG. 69

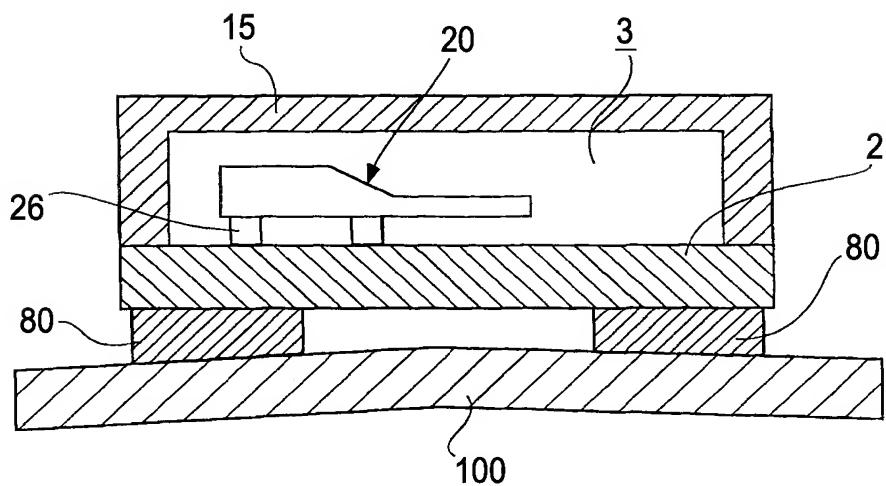


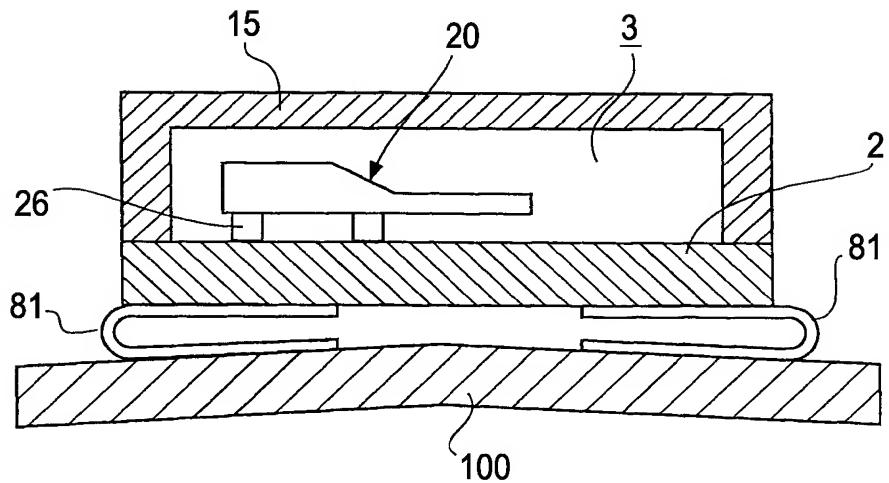
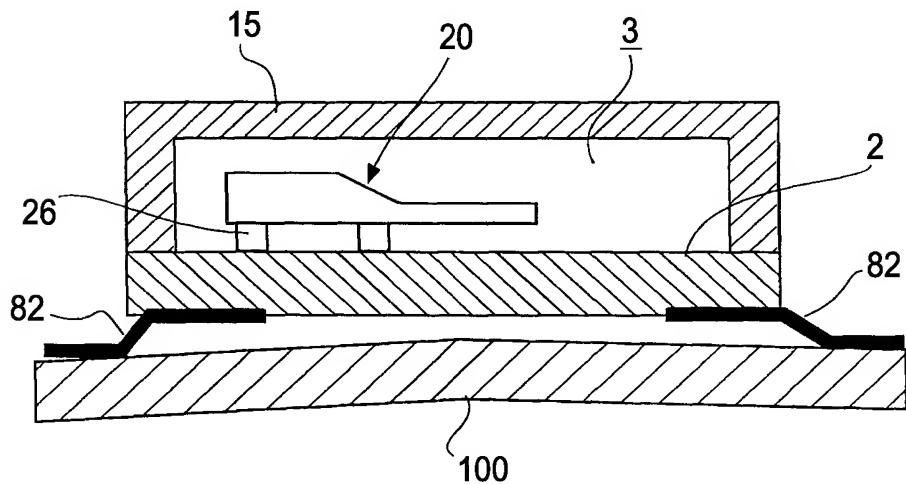
FIG. 70**FIG. 71**

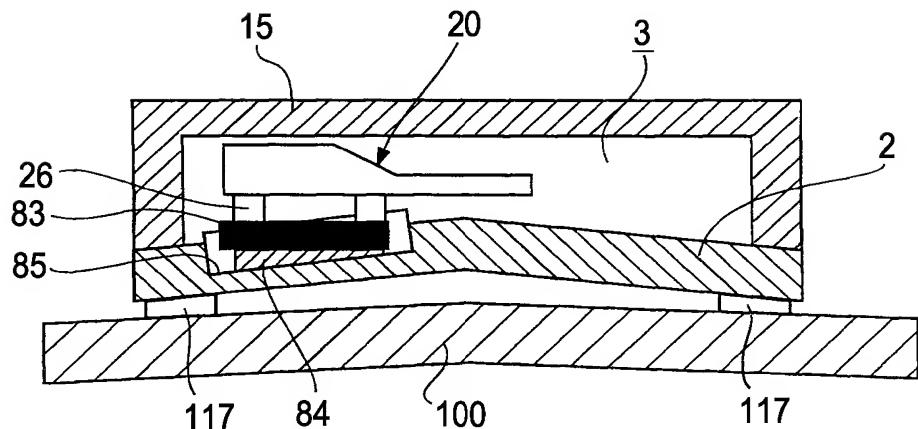
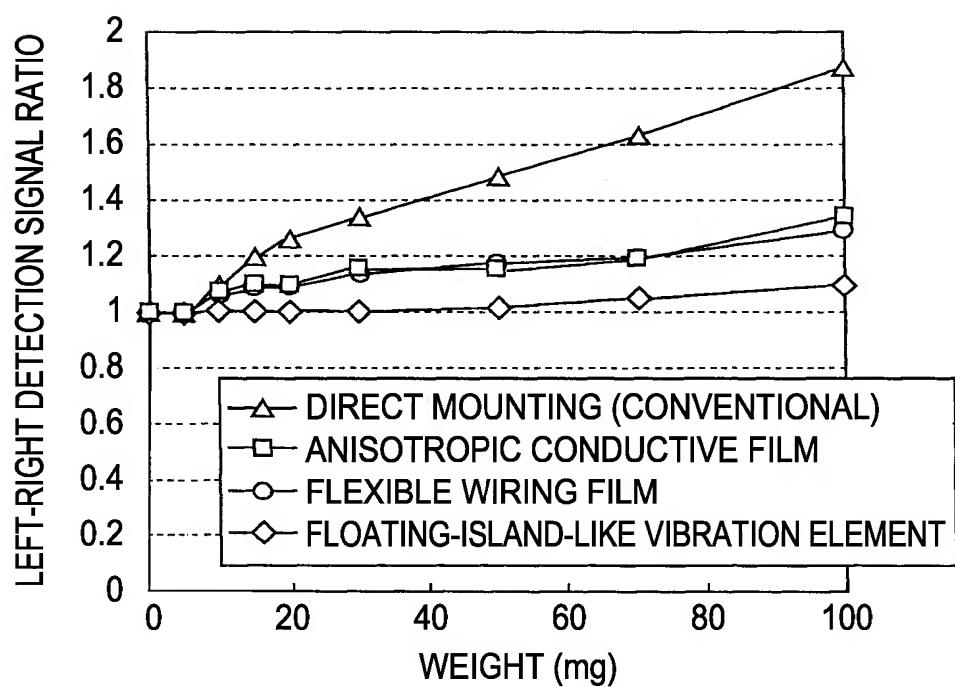
FIG. 72**FIG. 73**

FIG. 74

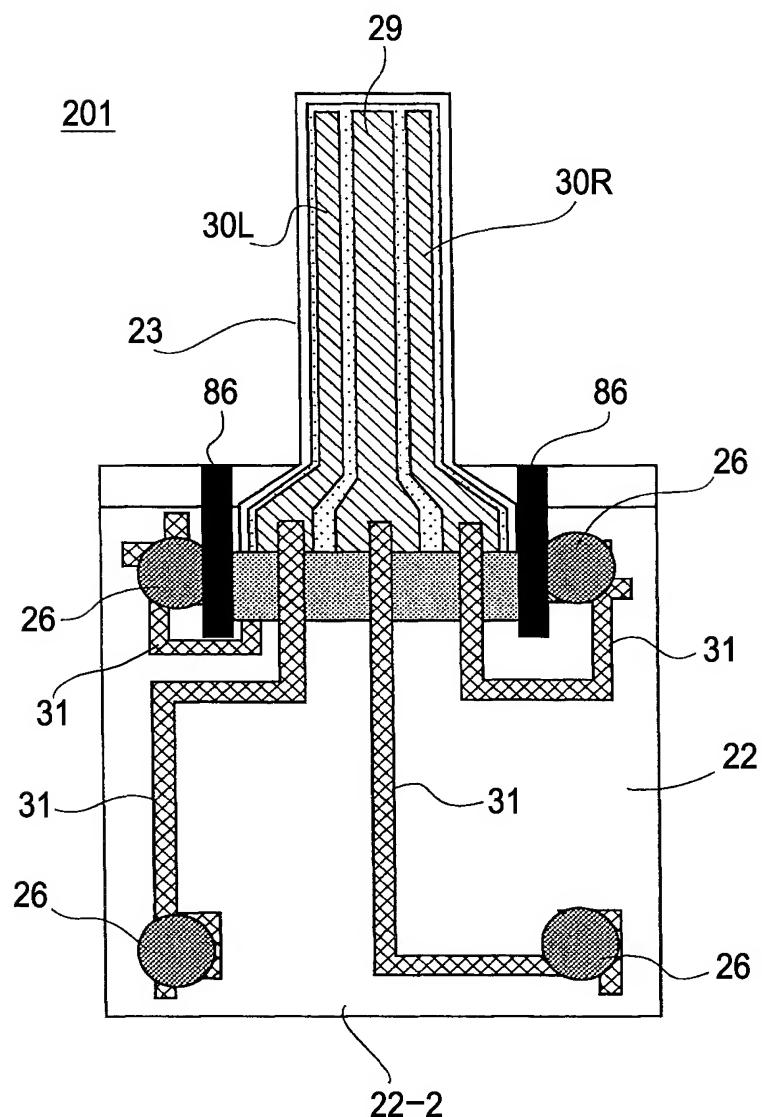


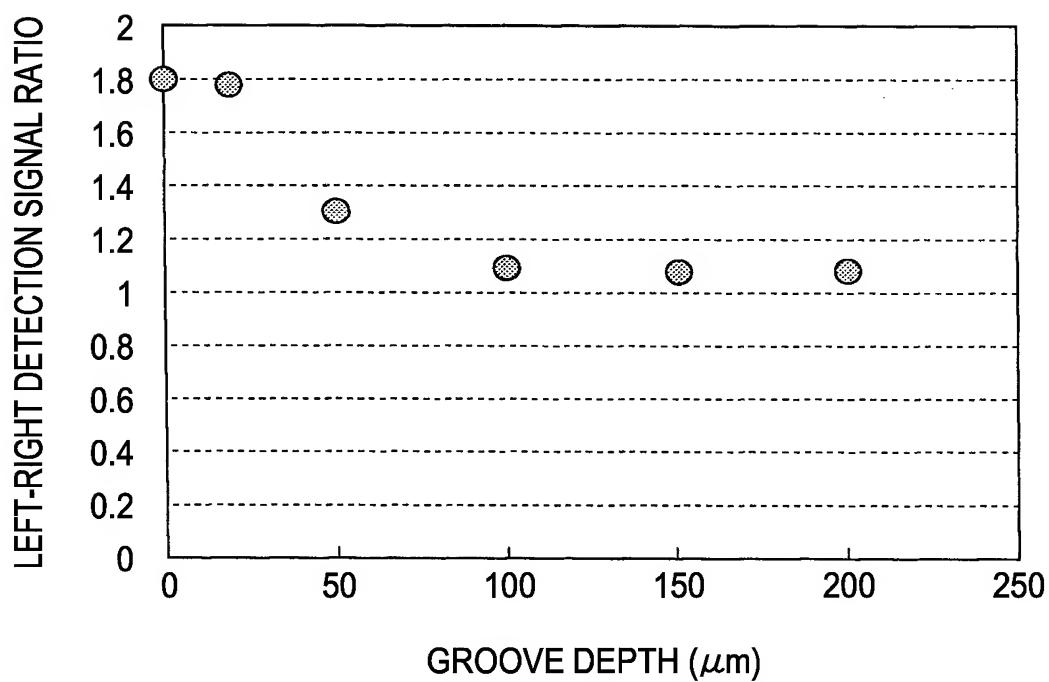
FIG. 75

FIG. 76

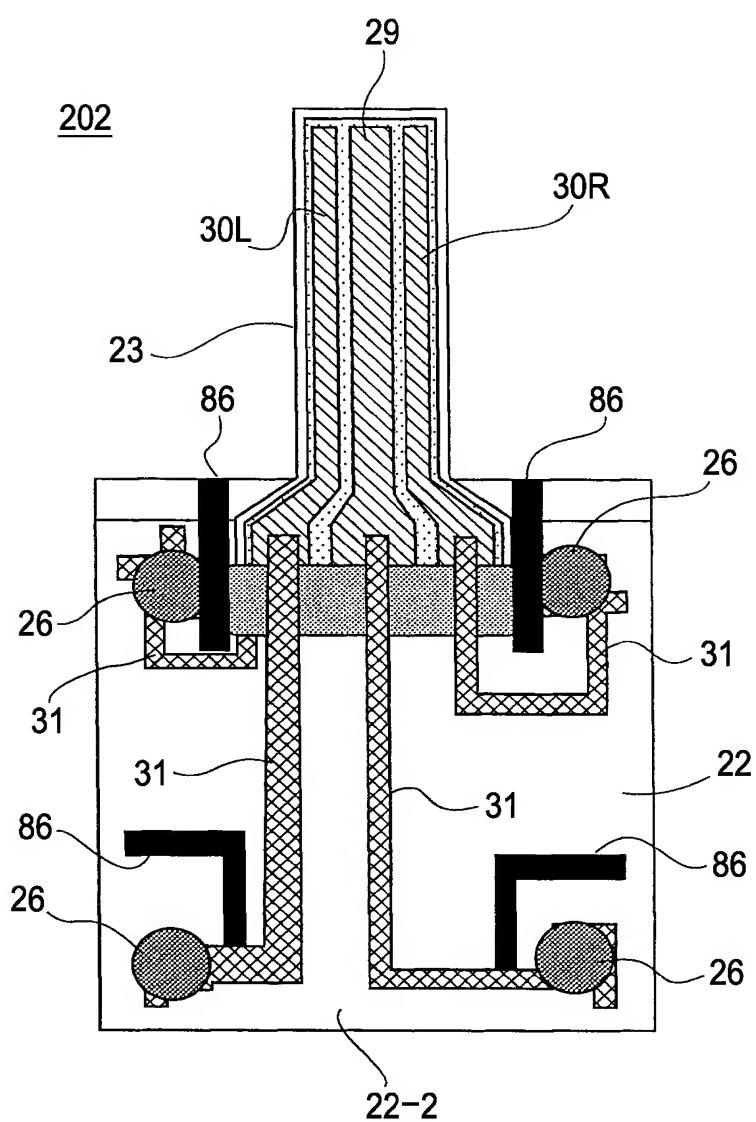


FIG. 77

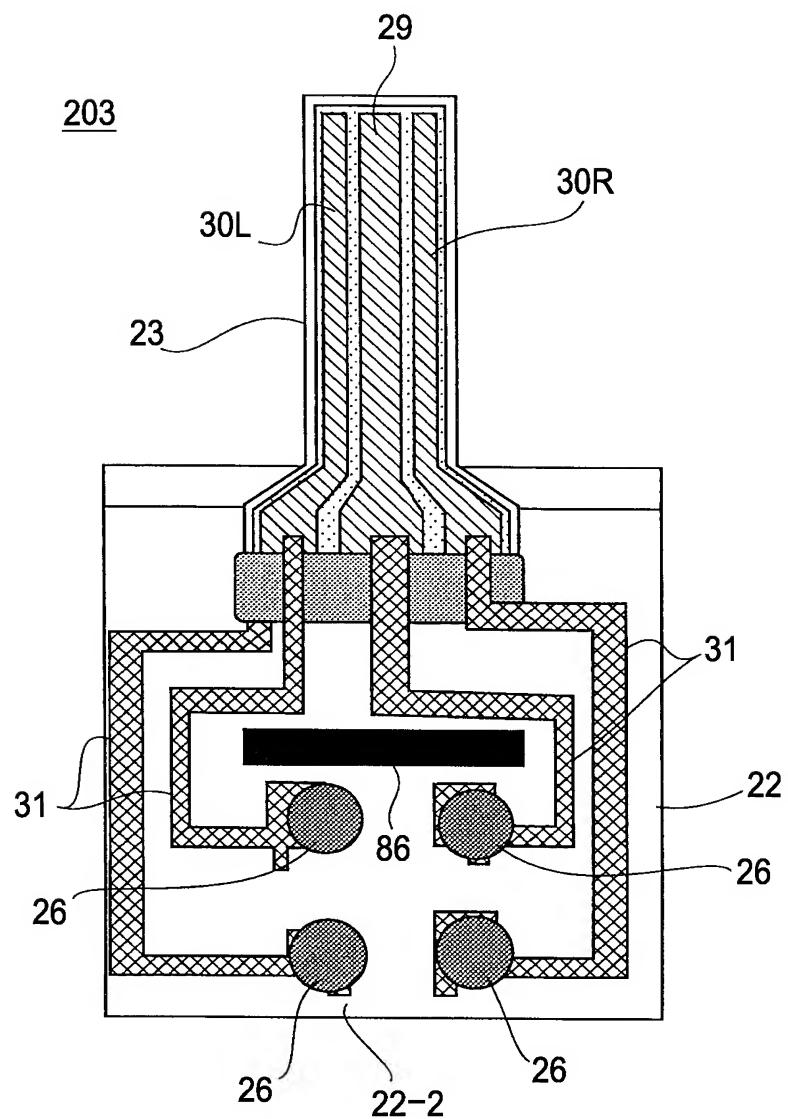


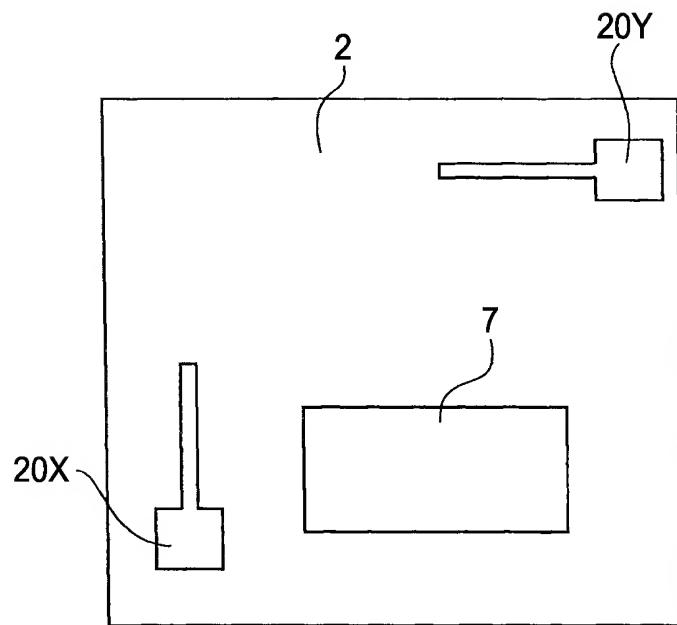
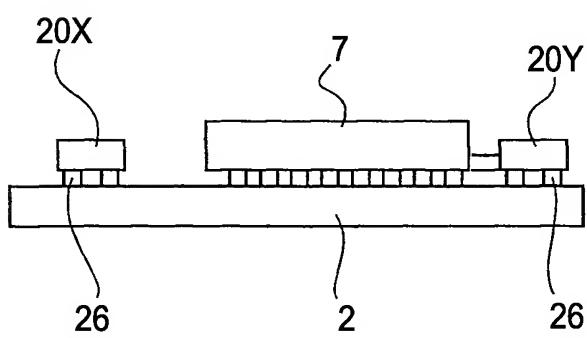
FIG. 78A**FIG. 78B**

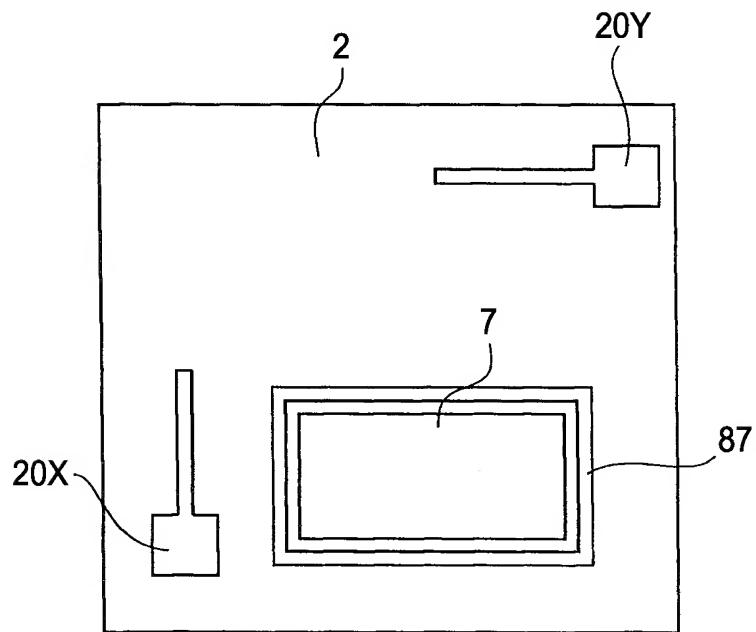
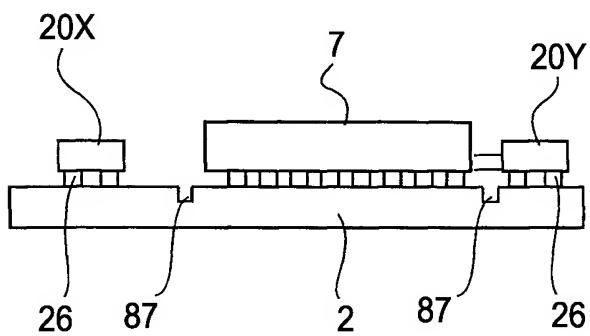
FIG. 79A**FIG. 79B**

FIG. 80

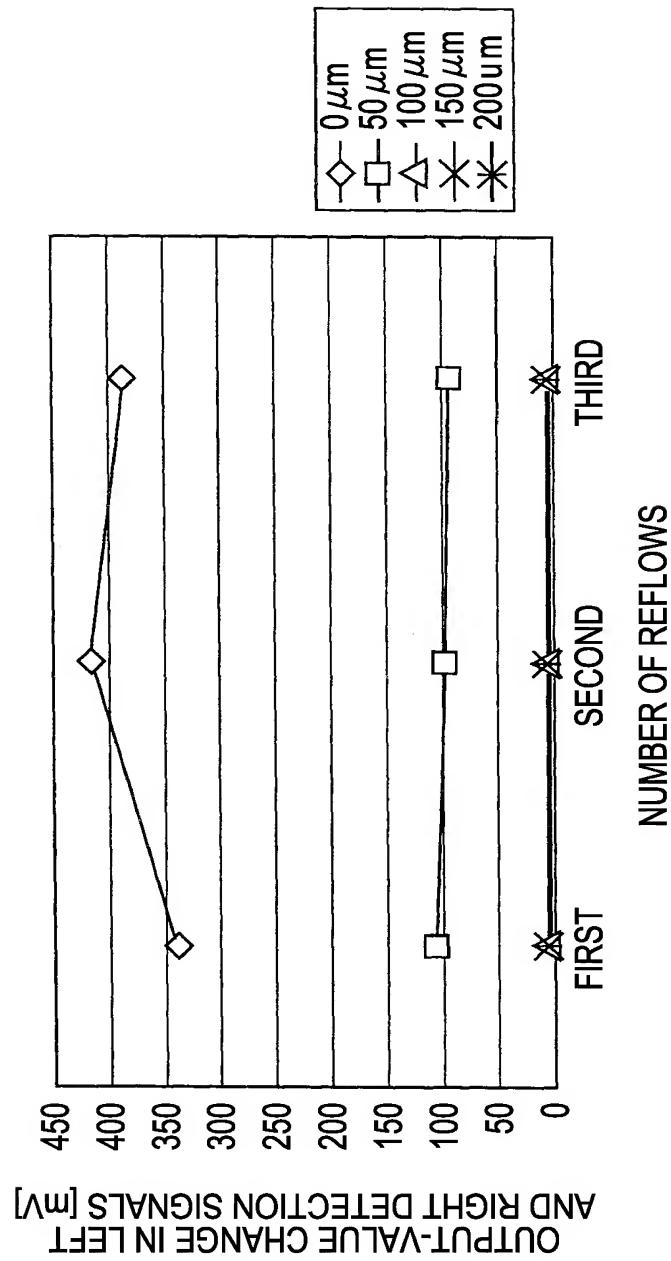


FIG. 81

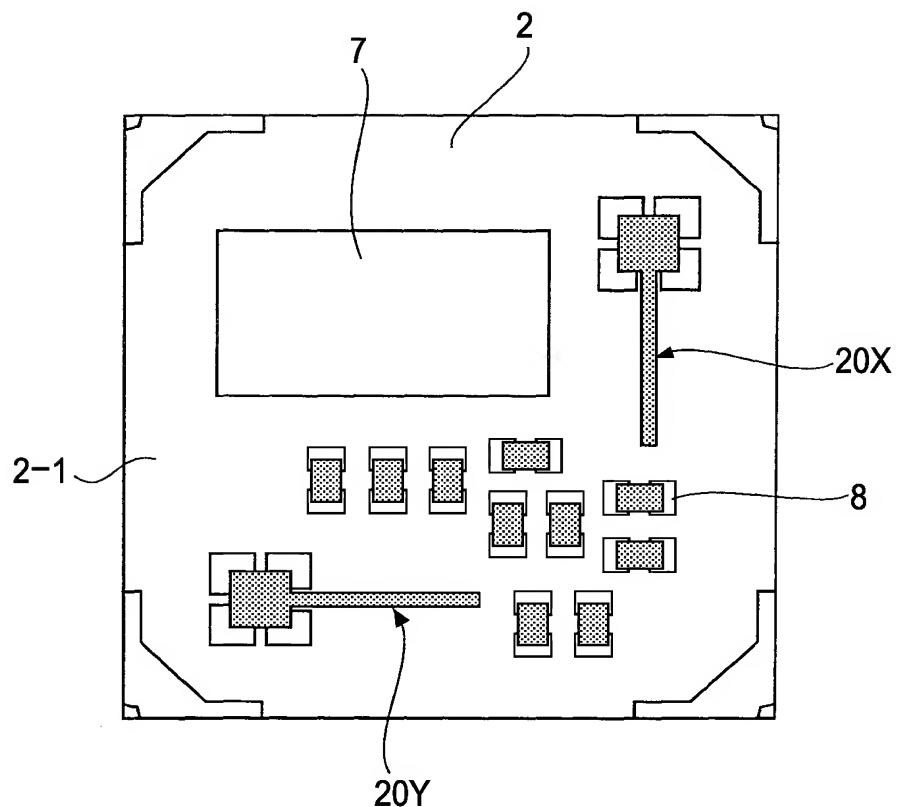


FIG. 82

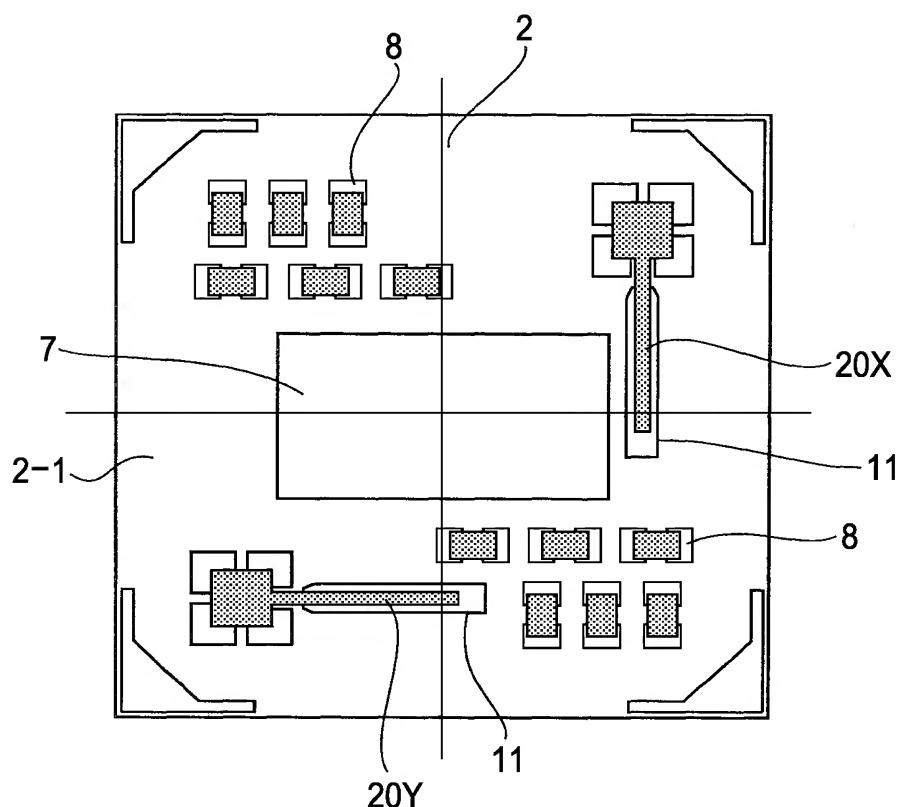


FIG. 83

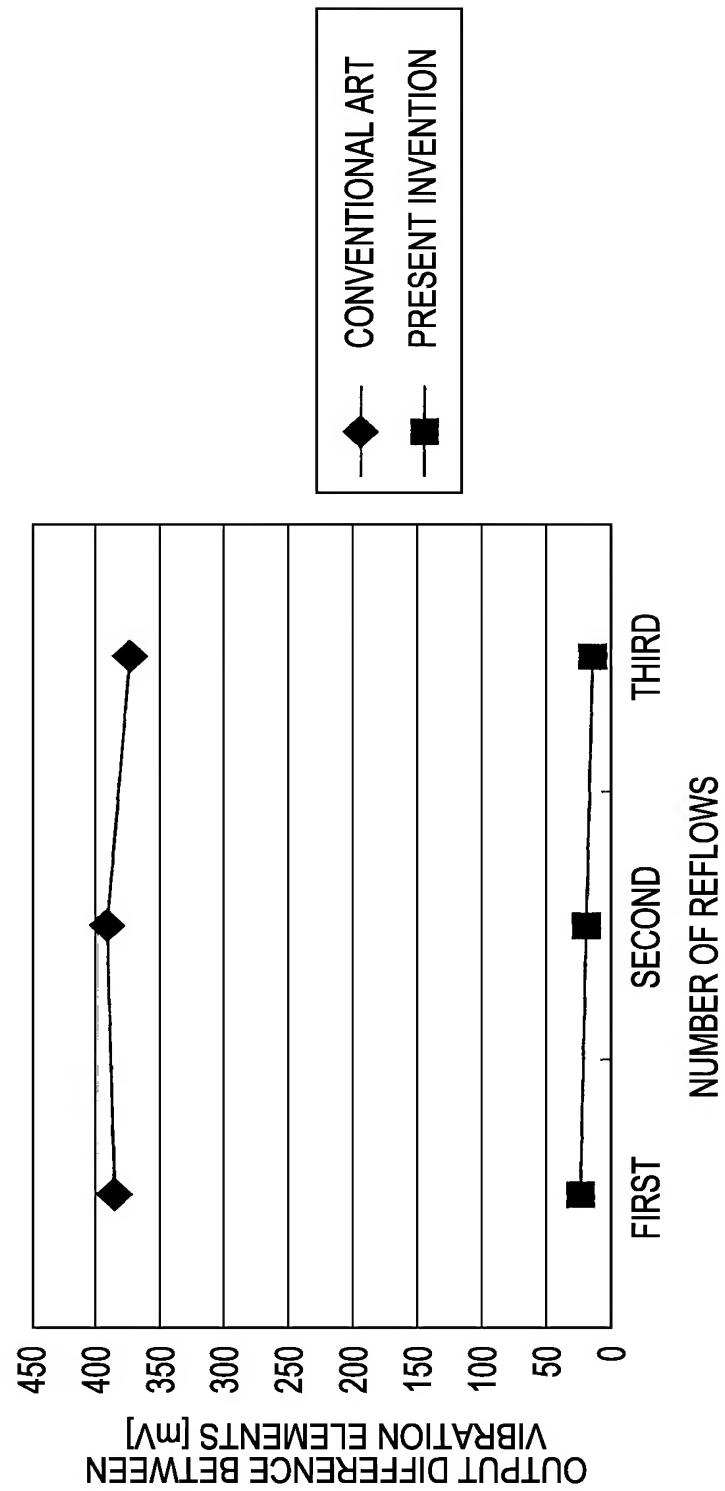


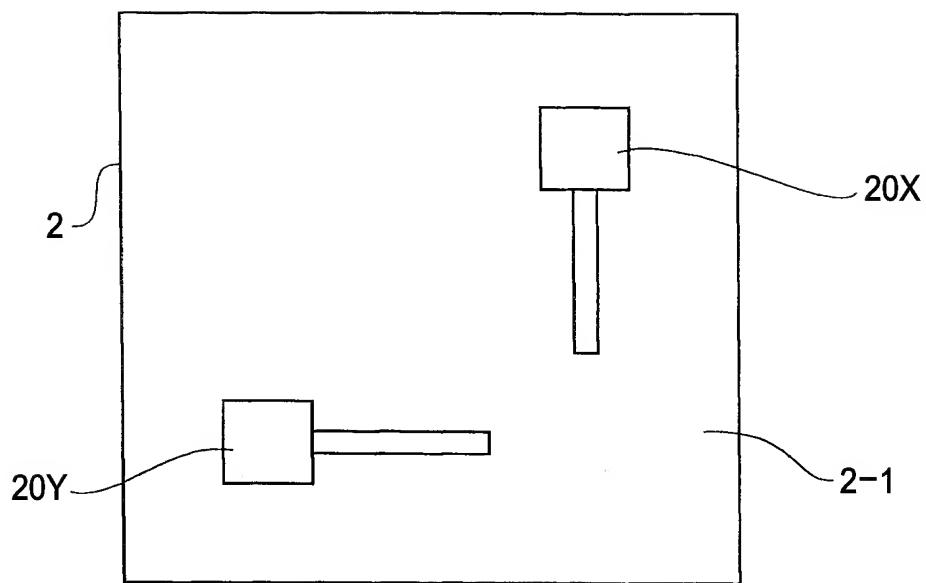
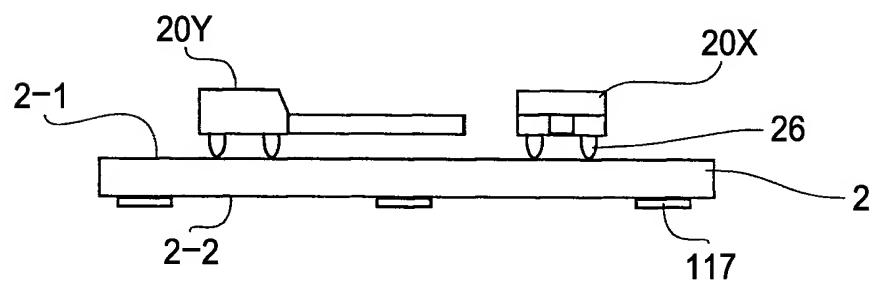
FIG. 84A**FIG. 84B**

FIG. 84C

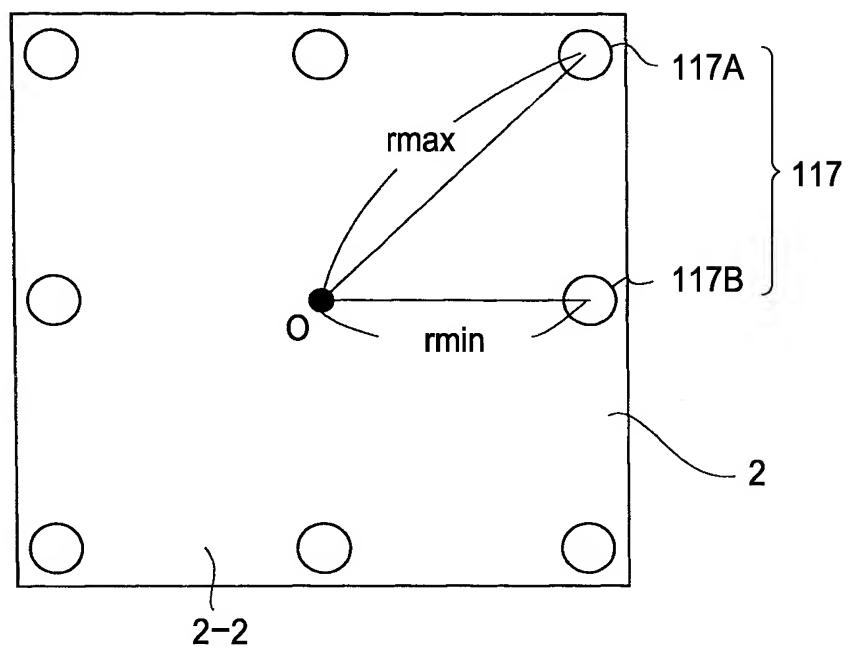


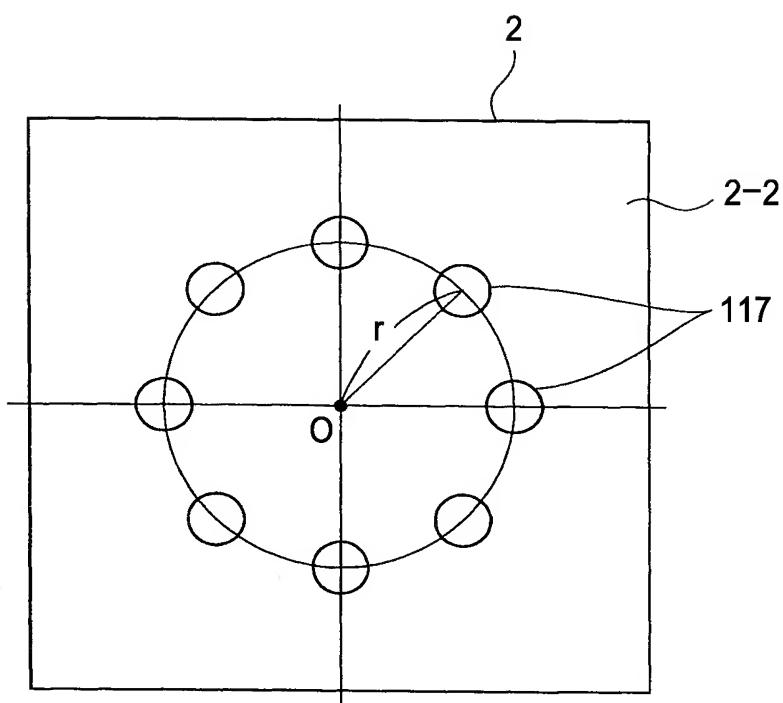
FIG. 85

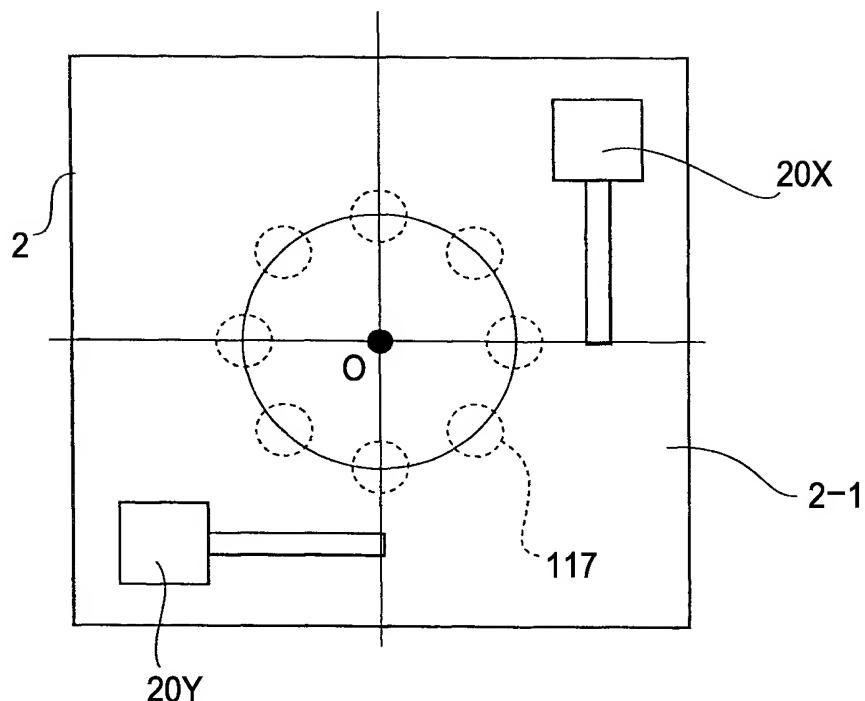
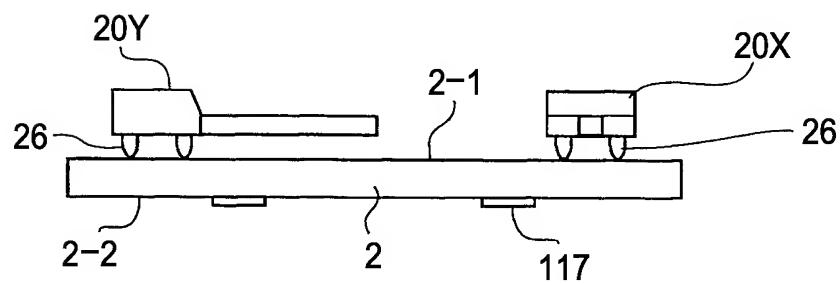
FIG. 86A**FIG. 86B**

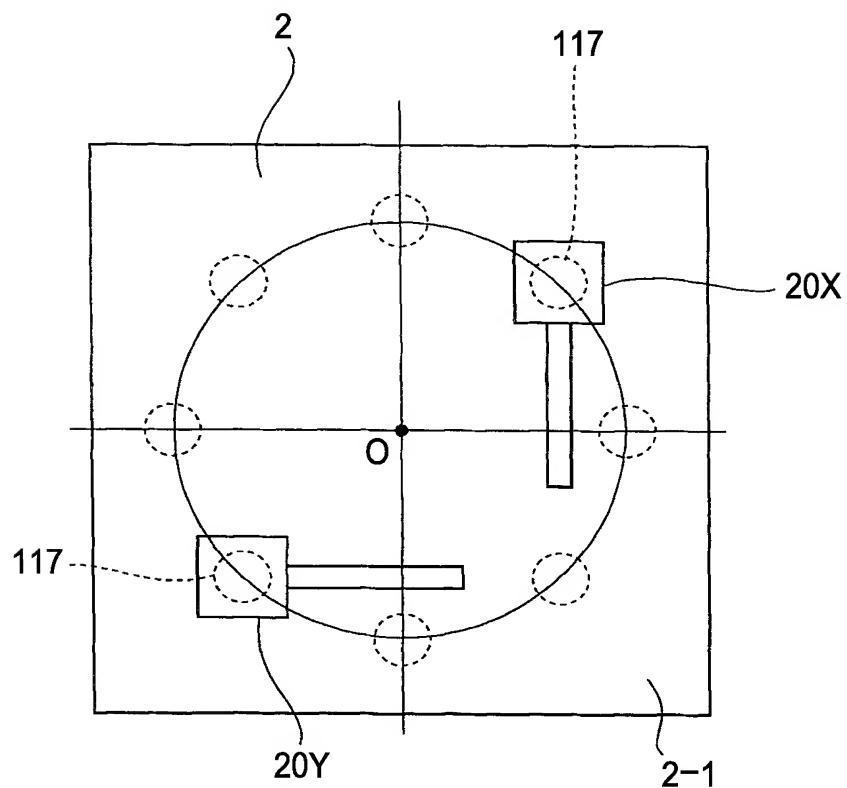
FIG. 87

FIG. 88